THE CHEMIST AND DRUGGIST

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NEAREST STATION,
OLD BATTERSEA STATION,
West London Extension Railway.

The Chemist & Druggist SUPPLEMENT

SATURDAY, MAY 1, 1897.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see last page of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

VENDORS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.
PURCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.
VALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—**£1,100.—LONDON (Good-class Suburb).**—Good remunerative Business, Retail and Dispensing; returns £1,100; the shop is well fitted, and is situate in the main road; modern residence, held on lease; price about £900 offer wanted.

2.—**£1,200.—LONDON (Residential Locality).**—Handsomely-fitted shop large and well-selected stock; the business is situate in the principal street corner position; returns nearly £1,200; *net profit* exceeds £450; commodious residence, on lease; investigation invited. Further particulars on application.

3.—**£950.—LONDON, S.E.**—Modern Pharmacy, chiefly ready-money; returns last year £950, increasing; *net profit* £250; the shop is well fitted and active, double-fronted; good house, held on lease; price about £880; offer entertained.

4.—**£900.—LONDON, N.W.**—Good-class Business, Retail and Dispensing; returns nearly £900 per annum; corner premises, capital position; the shop is well fitted, above the average; large house, on lease; offer wanted.

5.—**£100.—WATERLOO STATION (Five Minutes from).**—Neglected Business, situate in busy thoroughfare; good opening for an energetic man; no immediate opposition; price £100; full particulars on application.

6.—**£500. — DENMARK HILL** (death vacancy).—Old-established Business, situate in busy thoroughfare; returns, present rate, about £500; can be largely increased; good business premises and residence, held on lease at low rental; offer wanted.

7.—**£1,250.—LONDON (Suburban).**—Vendor retiring; well-established business; returns £1,250; *net profit* £500; purchasers with about £1,000 command will find this a good investment.

8.—**£1.150.—KENT (Large Town).**—Retail, Dispensing, and Prescribing Business; returns nearly £1,150 yearly; *net profit* £300; the business is situate in the High Street; capital position; the shop has single front, and is well stocked; rent £48 per annum; price £700.

9.—**£600.—LANCASHIRE (Large Town).**—Good-class Business, Retail, Prescribing, and Photographic; returns last year between £550 and £600; *net profit* nearly £200; price £550, estimated value of stock and fixtures.

10.—**£650.—SURREY (Attractive Town, in the Centre of Surrey).**—Well-established Business, with Post Office attached; returns exceed £650; the shop is nicely fitted, and well stocked; price £500.

11.—**£600.—HOME COUNTY.**—Easy distance of London; good-class Business with Post Office attached; returns £600 yearly; well-fitted attractive shop, capital position; good residence, held on lease; rental very moderate; vendor is open to offer.

12.—**£800.—WESTERN COUNTY.**—Small town, prettily situated; Light Dispensing Business, no heavy trade of any kind; returns last year over £800, *with very good profits*; the shop is large and attractive, situate in main street; very convenient house with large and well-stocked garden; price £675.

13.—**£650.—SUFFOLK.**—Large town; old-established Business; returns £650; *net profit* £200; vendor, who is desirous of effecting an early transfer, will sell for less than value of stock and fixtures; satisfactory reasons for relinquishing.

14.—**£500.—SOUTH COAST.**—Illness cause of sale; good-class Business; returns present rate £500 yearly; has returned £1,000; the business is situate in the chief street of a good commercial town; valuation of stock and fixtures only required.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

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PARTNERSHIP.—A1 chance for young qualified man; too much work for proprietor; no opposition; London; a rare chance; outside a term is. Address, in first instance, T. A. S., c/o Burgoyne, Burbidges & Co., 16 Coleman Street, E.C.

PARTNERSHIP.—Advertiser seeks Partnership in Wholesale Drug Trade in London; has capital, and large sound connection; or would like to meet with a chemist well-up in the manufacture of Pharmaceutical Preparations, with or without capital. Address, in first instance, "Spero," c/o Mr. T. Dales, 85 Melbourne Grove, East Dulwich, S.E.

APPRENTICESHIPS.

RETAIL.

LONDON.—An Apprentice wanted; outdoor, or with partial board. Apply, to A. M. Shepherd, Pharmaceutical Chemist, 79 Grosvenor Road, Highbury New Park, N.

LUTTERWORTH.—Wanted, gentlemanly youth as Apprentice; passed Preliminary preferred; every opportunity of acquiring a thorough knowledge of the business in all its branches. Apply, T. B. Potter, Chemist, High Street, Lutterworth.

WALTHAMSTOW.—Apprentice.—E. H. Hamilton, Chemist and Druggist, has a vacancy for an Apprentice; premium required. 1 St. James' Street, Walthamstow.

WORCESTER.—Apprentice wanted in good Dispensing and Retail Business; passed Preliminary; comfortable home; premium. John Chambers, the Tything, Worcester.

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VALUER,

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References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

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NO CHARGE TO BUYERS.

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£620 returns.—**STAFFS** (Death vacancy).—Old-established concern; excellent position for up-to-date trade; energetic man could double returns at once; good house; price £500.

£950 returns.—**DEVONSHIRE.**—Light Retail, Dispensing, &c., in fine position of favourite resort; ample scope for man accustomed to good-class trade; price about £750, or valuation.

£450 returns.—**DEVON.**—General Light Retail, Prescribing, &c.; fair house; rent £25; price £225.

£1,300.—**MIDLANDS.**—Good-class Cash and Retail, in residential suburb of large town; returns in Patents not large; net profit £400; large and commanding premises; price about £950, part of which can remain on security.

£900 returns.—**LONDON, N.**—Light Retail, Dispensing, and Prescribing; net profit £300; good house; lease; price £750.

£600.—**WALES (NORTH).**—Thoroughly reliable and profitable Retail; net profit £250; good house, low rent; close to picturesque scenery; price £500.

£700 returns.—**LEICESTERSHIRE.**—Good-class family Retail, in pleasant market town; large and convenient house, good garden, vinery, &c.; short hours; price £550.

£450 returns.—**NOTTINGHAM.**—Branch Retail in improving part, with little opposition near; personal attention would materially increase returns; price about £250.

£900 returns.—**S. WALES.**—Light Cash Retail, Dispensing, Prescribing, and own Preparations; net profit £250; price £600.

£820 returns.—**WARWICKSHIRE.**—General Mixed Retail of unusually profitable character; rent low; price £550, or valuation.

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2.—**EASTERN COUNTY.**—Old-established Retail, Dispensing, and Agricultural Business; returns £1,200 under management; scope for increase; convenient house and premises; price £850.

3.—**HUNTINGDON.**—Old-established Retail and Prescribing Business; returns £500; can be doubled; low rent; good house; valuation of stock and fixtures only required, about £150.

4.—**BEDFORDSHIRE.**—Light Country Retail and Dispensing Business; returns £860; net profit £300; commanding double-fronted shop, well fitted, heavily stocked; good house, garden; price £750.

5.—**GREAT YARMOUTH.**—Light Retail, Dispensing, and Prescribing Business; returns £800; handsome double-fronted shop, well fitted and stocked; good house; can be increased; price £600, or valuation.

6.—**HOME COUNTY.**—Unopposed Light Retail, Dispensing, and Prescribing Business; returns £600; net profit over £200; rent £30, on lease; good house, large garden; price £450.

7.—**LANCASHIRE.**—Good-class Retail and Dispensing Business; returns £1,400; rent £60, on lease; good house; stock and fixtures worth £1,000; price £1,200, or offer.

8.—**HAMPSHIRE.**—Light Retail and Dispensing Business; returns £12 weekly under management; good house; shop is well situated for doing best-class trade; price £450.

9.—**NORTHAMPTON.**—Retail and Prescribing Business; returns £5 weekly, could do £10; rent £20; good house; price £105, including stock and fixtures; bargain to beginner.

10.—**LONDON, S.W. (Tooting district).**—Retail and Prescribing Business; returns £7 weekly; well-fitted shop, with good house; low rent; price £170; stock and fixtures are worth £200.

Particulars of the above and others free on application.

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VALUATIONS made for Probate or Transfer by a fully qualified member of the firm. Books Audited, Balance Sheets Prepared and Chartered Accountants' Certificate given.

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LEICESTERSHIRE.—Good-class Country trade; returns £700; very handsome Pharmacy and good house; rent £60; price £550.

HUNTINGDONSHIRE.—Very old-established Country Business, with Wines and Spirits; the proprietor is retiring from business on account of old age, and will accept the value of the stock and fixtures, about £20. This is a good chance for an energetic man with limited capital, as it wants a little push to make a good business of it.

HOME COUNTY.—Family trade; returns £900; price £800; large and convenient premises, with large garden.

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2.—**SCOTLAND** (County Town).—First-class Retail and Dispensing; handsome double-fronted shop in leading position; net profit about £350; price £960.

3.—**CHANNEL ISLANDS.**—Retail and Manufacturing Business; net profit about £250; superior shop and residence; price £500, or valuation and small goodwill.

4.—**NORTH ENGLAND.**—General Retail and Dispensing; returns over £1,000; price £950.

5.—**BRIGHTON.**—Retail and Dispensing; returns about £650; price £450.

6.—**SEASIDE.**—Returns over £1,000; price £750.

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(Next Door to Bow Church.)

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Chemists' Transfer Agents and Valuers,

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A. J. WHITE, LIMITED,

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CHANNEL ISLANDS.—Through illness; Family and Dispensing Business; the shop is extra well-fitted, and in the principal business street; stock thoroughly up-to-date; nice residence, mild climate, cheap living, low rent, taxes nominal; legal qualification not necessary; net profit £220; price £550. "Executor" (106/6), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHESHIRE.—First-class Light Retail and Dispensing Business, under management; returns about £1,100, full prices, patents 1s.; elegantly-fitted shop, well stocked; to be sold lump sum or by goodwill and valuation; energetic principal, accustomed to first-class Dispensing, could double the receipts. S. V. R. (105/4), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DERBYSHIRE.—Unopposed good-class Light Retail and Dispensing Business, for sale solely through breakdown of health; changed hands once in 37 years; low rent, on lease; good house and large enclosed garden; returns nearly £500 at excellent profits: stock and fixtures worth £300; price £325, a bargain. "Zinci Ox" (105/5), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DERBYSHIRE.—Good-class County Chemist's Business for Sale in Derbyshire; returns £500. Apply, Davies, Gibbins & Co., Derby.

EAST COAST.—Light Retail, with Gilbey's agency; situate best position, opposite pier and gardens; shop double-fronted, modern; side door; population rapidly increasing; opening for Dentistry; returns £600; price £400 or offers: no cards. L. X. (100/27), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

HOLLOWAY (Junction Road).—Well-fitted corner Shop and good house, with side entrance; nucleus of good trade; will close same Saturday night; first offer accepted, so that anyone could open Monday morning. Apply, Friday, before 6 P.M., to Philip Josephs, 54 Old Street, City Road, London, E.C.

LLANELLY.—Splendid chance for energetic Welshman, but Welsh not absolutely necessary; owing to ill-health and taking Dental Practice, Wesley Jones purposes selling his genuine good-class Mixed Business; well worth £1,400; open early offers; only cash buyers who will afterwards carry on the Business dealt with; 10 years' lease to run; probable renewal; most convenient commodious premises; foremost position; with personal attention returns easily doubled; with energetic working trebled; fair Dispensing, Prescribing, Veterinary, Agricultural, Drugs, Sundries, Photographic, Tower Tea, Seeds, Patents, Proprietaries; Lock-up shop attached pays one-third rent; please make previous appointment to view by letter.

LEEDS.—Branch Business for Sale, in pleasant neighbourhood; good opening; returns, under management, £7 a week; rent £30; price £200. Apply, B., Hirst, Brooke & Hirst (Limited), Leeds.

LINCOLNSHIRE.—For Sale, in a large and improving market town in Lincolnshire, an old-established first-class Family Drug Business, including a very good Wine and Spirit trade and Aërated-water Manufactory, with a large local connection; the extensive premises are freehold and may be purchased with the business. Apply to Mark Smith, Chemists' Transfer Agent, Louth, Lincolnshire.

LIVERPOOL (Suburbs).—For Sale, in the suburbs of Liverpool, a first-class Dispensing Business owing to death of proprietor; well situated; capital required about £1,000; good profits; no agents. Full particulars on application to "Borax," c/o Evans, Sons & Co., 56 Hanover Street, Liverpool.

LONDON.—To be Let or Sold, as a going concern, fireproof Chemical, Metallurgical, and Electrical Laboratory and Factory; has basement and four floors, fitted with electric power and light; situated in central position in London; well adapted for Assaying and Scientific Research. Apply, Murphy, 36 Mount Stuart Square, Cardiff.

LONDON, S.E.—Snug Retail and Prescribing Business in busy main road, S.E.; returns £400; moderate rent; shop well fitted and stocked; eight-roomed house; let off £25; part purchase-money could remain; splendid opening for pushing man who is good Prescriber; price £250; only wants seeing. "Veritas," 55 High Street, Collier's Wood, S.W.

LONDON, W.—£250; high-class Retail and Dispensing Business; returns £450, at large profits; large house, with side door; on lease; opening for a Store Chemist and Dentist, there being every convenience for doing business on a large scale; good reason for selling. 105/21, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON SUBURB, N.E., main roads, price £120 and £250; doing £5 and £7 a week under management; rents £50; growing ready-money neighbourhood; 6 and 8-roomed houses, latter with garden; also another doing £500 year, price £1 000. Address, A. B, c/o Mr. Tibbett, 252 High Road, Tottenham, London, N.E.

NORTH OF ENGLAND.—For immediate Disposal; fully £1,000 returns; North of England; rising seaport town; good, sound, genuine Business, General, Retail, and Dispensing, Photo Goods, Shipping, and Wines, with Dental connection; large, commodious premises, splendidly fitted; low rental; well stocked; about £900 required. Apply, Wilkinson & Simpson, Wholesale Druggists, Newcastle-on-Tyne.

NEWPORT, PEM.—For Sale, old-established Business (70 years); Chemist and Druggist, Seed Merchant, Photography, &c.: lately carried on by Mr. D. O. James (deceased); all the effects to be taken at a valuation. For full particulars apply to Capt. John James, West Street, Newport, Pem.

SEASIDE.—Old-established cash Retail, Prescribing, and Dispensing; very profitable; takings nearly £800; increasing; ill-health cause of disposal; trial allowed; in full working order: excellent house; best position in town; price £675 cash; good opening for Dentistry and Photography. "Omicron," c/o F. Newbery & Sons, 1 King Edward Street, London, E.C.

SOMERSETSHIRE (Market Town).—For immediate Sale, the whole of the well-assorted Stock-in-Trade and Fixtures of an old-established, high-class Country Business; suitable for a Chemist starting. Apply to Darby, Valuer, Taunton.

SOUTH COAST.—Old-established Business; Retail and Dispensing; well fitted and stocked; modern and convenient house, on lease, in favourite South Coast resort, offering exceptional advantages to gentlemen with Continental experience, or as a Branch of good London house; references required; no agents. "Solicitor," c/o Edwards & Son, 157 Queen Victoria Street, E.C.

SOUTH MIDLANDS.—For immediate Sale, a genuine light Retail, Dispensing, Family, and Prescribing Business in South Midlands; exceptional opening for Dental work; good house, garden, greenhouse, &c.; long lease; rent £50; no cutting; returns £800; no agents; no cards; price £825. Apply, "Seneca" (100/28), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SOUTHEND-ON-SEA.—Cash Retail; weekly returns £6 under management; rapidly increasing neighbourhood; season commencing; should he doing £10; rent £35; favourable lease, 20 years to run; owner has purchased larger business, 100 miles away; worth £200; no reasonable offer refused; exceptional opportunity for single man, as house readily lets at £20; part purchase-money can remain. "Chemist," 9 Hall Quay, Yarmouth.

SOUTH OF ENGLAND.—Exceptionally good-class Dispensing and Retail Business, South, and near sea; easily worked; suitable to Pharmacist with practical knowledge of Photography; capable of great increase; price £500, or near offer. "Camera," c/o Wright, Layman & Umney, 50 Southwark Street, S.E.

SOUTH WALES (Watering-place).—Light Retail and Dispensing, with Gilbey's Agency; large house; long lease; splendid opportunity; no opposition; good opening for Dentistry; season commencing; no Welsh spoken; returns £1,350; price £900. "South Wallan" (99/15), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

STAFFORDSHIRE POTTERIES.—Thoroughly genuine Retail Cash Business; main thoroughfare; splendid position; good living accommodation; low rent; 11½ years of lease to run; returns £760; price £600; immediate possession for cash. Full particulars to bonâ-fide buyers on application to "Drugs" (99/11), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

STAFFS.—Mining Village, near Potteries.—Lock-up Branch: returned last year (first year's opening) £329; good opening for smart man well up in Prescribing, Dentistry, &c.: will take £100 cash down; satisfactory reason for selling: no opposition: investigation invited; expenses almost nil. "Nomen" (92/2), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SURREY (Banks of the Thames).—Magnificent position for doing a large, good-class Store business; returns, under management, £2,000; can be doubled by energetic principal; handsome double-fronted shop, heavily stocked; good house, bath-room, &c.; price £1,300, or offer. "Hyos." (105/6), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WEDMORE.—Unopposed, small, old-established Country Business for immediate Disposal, through death of proprietor; suit a young man with small capital; no reasonable offer refused. Address, Miss Thornton, Wedmore, near Weston-super-Mare, Somersetshire.

WORCESTERSHIRE (Market Town).—A good-class Business; very profitable: Patents nearly nil; nice house, little garden; profits £300; price £550; handsomely fitted and well stocked; could be doubled in 12 months with attention. "Chemist," c/o Southalls, Wholesale Chemists, Birmingham.

YORKS. (West Riding).—£200; well-stocked Shop, in good position of populous neighbourhood; returns, under management, £400; capable of considerable improvement: satisfactory reasons for disposal; splendid opportunity for beginner; only needs seeing. Apply, "Maranta" (101/14), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ADVERTISER, through long-continued illness, will sell, for £50 and valuation, small profitable Essence Business; returns average over £700 yearly for 4½ years; business easy and pleasant; energetic man travelling three days and manufacturing three days weekly would make fortune. "Essences" (99/7), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSING and Prescribing Business, some good Proprietaries; large house; rent could be covered by letting; long lease; thoroughly good neighbourhood, no opposition: returns £900; principals only need apply: references. "Borax" (105/20), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR Sale, Face-powder Manufacturing Business; unique Spécialité, just started; stock in-trade, fixtures, effects, &c., £60, or £30 and quarter-share net profits. Call or write Rivers & Co., Face-powder Manufacturers, 37 Commercial Road, London, E.

IN pleasant suburb of large town, old-established Business for Sale; returns between £1,500 and £1,600; good prices have been obtained; ill-health sole cause of selling; principals only treated with, in confidence. 104/7, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES FOR DISPOSAL CONT^D

NEGLECTED Business, easy distance of London; worth seeing to bona-fide men; returns could be doubled by energetic man; returns about £370; price £270 or offer. 88/6, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

OLD-ESTABLISHED Cash Retail Business, in densely-populated district, for immediate Disposal; mahogany fitted and well stocked; returns over £500; full prices; full investigation, and satisfactory reasons for disposal. Apply, Mr. James Todd, Chartered Accountant, Preston.

WANTED, a good Drug Store, Specialist, or Herbalist Business; London, main road; corner shop preferred; or would exchange my Drug Business, W. of England; weekly returns £12; rent under £30; good house and shop, large plate-glass front; lease 14 years; established 20 years; part furniture can remain; fullest investigation courted and required. Address, M. P. (103/17), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£1,500 returns; rent £50; good Mixed Business in the Potteries, with first-class connection amongst Manufacturers and Potters; a thorough introduction to mode of working will be given by proprietor, who has reluctantly to offer for Sale. For further particulars, apply, "Glazeine" (104/9), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

AT once, genuine Business required; advertiser is prepared to pay cash down for a suitable business returning over £750, and showing net profit of £250. Kindly send full details to 104/21, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a small genuine Light Retail and Dispensing Business, returning not less than £400 a year; good house attached; low rent; objection to branch from business in same town. "Chemist," 6 Lower Bedford Place, Terrell Street, Bristol.

WANTED, good-class Business; turnover £800 to £1,000; no agents; references exchanged. Particulars to "Chemicus," c/o Messrs. Hearon, Squire & Francis, 38 Southwark Street, S.E.

WANTED, by qualified Chemist, particulars of good-class Retail and Dispensing Business, showing profit of about £250 yearly, where proprietor contemplates retiring, and where services could be given at nominal salary, with view to early succession on mutual terms; Lancashire or Cheshire preferred, but not essential; replies treated in confidence; references exchanged. "Benzone" (103/24), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FIVE POUNDS will be paid (if advice is acted on) to anyone who can tell of a good opening for a modern Chemist's Cash Business (London suburb preferred). Apply, "Antipyrin" (105/19), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SALES BY AUCTION.

TO Wholesale Chemists, Chemical Brokers, and Others.—Damaged Goods ex. *H. H. Meier* s.s., Bremen to New York, and ex. *Melrose* s.s.—By order of the London Salvage Association and others interested, Robert Lyon & Co. will sell by Public Auction, on Thursday next, May 6th, at 1 P.M. prompt, at the Commercial Sale Rooms, Mincing Lane, London:—Cocaine muriate, 2,000 oz.; quinine sulphate, 2,800 oz.; oils of orris root, peppermint, geranium, lavender, rue, coriander, patchouli, &c., 1,200 lbs.; black potash, 145 cwt.; manganese, 160 cwt.; graphite, refined, 120 cwt.; cutch, B.S.L., 1,121 boxes. Goods on view May 4th, 5th, and 6th. Write for catalogues to Robert Lyon & Co, Marine and Fire Salvage Brokers, 27 Cornhill, London. Telegrams—"Flotsam London."

TO LET.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

HOVE, BRIGHTON.—To Let, large double-fronted corner Shop, in main road; first-class opening for Chemist; exceptionally well-arranged house and offices; 5 bedrooms, bath-room, 2 reception-rooms; private and back entrances; large vault, suitable for storage or workshop; rapidly-rising neighbourhood. Apply, Parsons, 118 Church Road, Hove.

LONDON, N.E.—To Dentists, a set of rooms (2 large) over a Drug Store, in a very important main, N.E.; no opposition near: to good man, willing to do business on the modern system, this is an exceptional chance; private lobby entrance, with every facility for doing a large practice. Address, "Dentist," c/o Barclay & Sons, 95 Farringdon St., E.C.

FOR SALE

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

FOR Sale, the whole of the valuable Fixtures and Fittings, also the Stock-in-Trade, amounting at cost to about £700, at present on the premises, 107 High Street, Sunderland, occupied by Messrs. J. J. Nicholson & Co., Chemists; the Fixtures, Fittings, and Stock-in-Trade can, if desired, be sold in separate lots. For particulars apply to R. A. Brown, Chartered Accountant, 16 John Street, Sunderland.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

RETAIL.

ASCOT.—Outdoor Assistant wanted, for Light Retail and Dispensing business, aged about 24; must be quick and accurate Dispenser; early hours. Send full particulars with salary expected (enclosing photo to be returned), to Sandwith & Clayton, Ascot, Berks.

BARNSLEY.—Wanted, Manager for Mixed Retail, Wines, Spirits and Tobacco; registered; energetic, obliging, and trustworthy in every way; married; one desirous of purchasing a very old-established business preferred. Apply, stating experience, age, salary required, also enclosing references and photo, to J. L. P. Hollingworth, Chemist, 21 New Street, Barnsley.

BATH.—Immediately, Assistant (outdoor): must be competent Dispenser and accustomed to good-class Store business. State age, height, salary, references, and enclose photo to Pinch & Co., Bath.

BATH.—In good-class cash trade, good counterman, about 24 years of age; outdoor. The Bath Drug Co., 11 Abbey Churchyard.

BIRMINGHAM.—Board and lodging in return for services in evenings; qualified; good-class business. Price, Schoolhouse, Harborne, Birmingham.

BIRMINGHAM.—Assistant wanted, not under 23, indoors, for Light Retail and Dispensing. Apply, stating full particulars, salary required, &c., to Jarvis, Chemist, Handsworth, Birmingham.

BIRMINGHAM.—Junior wanted at once; must be well up in Dispensing and good Counterman, of good address, and capable of taking charge occasionally. Apply, T. Beech, Chemist, King's Heath, Birmingham.

BIRMINGHAM.—Immediate.—Manager for Branch; live on premises. State full particulars, enclosing photo, to Johnson, Chemist, Ladypool Road, Birmingham.

BIRMINGHAM.—Qualified and unqualified Assistants (outdoors) for the Retail Counter. Apply, stating age, height, experience, salary required, and enclose photo (to be returned), to Hedges & Son, Cash Chemists, Dale End, Birmingham.

BRISTOL.—Immediately; smart, qualified Assistant, accustomed to brisk Retail and capable of taking charge of Branch business if required. State age, height, experience, salary required (outdoors), and enclose photo to Henry Hodder & Co. (Limited), Broad Street, Bristol.

BRISTOL.—Qualified Assistant, for good-class country Retail and Dispensing. Apply, with full particulars as to salary, &c., to A. W. Gedge & Co., Chemists, Fishponds, Bristol.

BUCKINGHAM.—For the Provinces.—An Assistant, indoors only, not over 26, accustomed to Agricultural and good-class Family business, and able to Extract Teeth; no Sunday duty; comfortable home. Applicants must state age, salary required, and enclose photograph (which will be promptly returned), Herbert Webb, Pharmaceutical Chemist, Buckingham.

BURSLEM.—Qualified Manager; married; house-rent and rates free; must be a good Prescriber, Tooth-extractor, and able to suit himself to a working-class district; first-class references required; write, enclosing photo, and stating salary. Apply, Cooper, 13 Lyndhurst Street, Burslem.

CARDIFF.—Qualified Assistant (outdoors), immediately. Please state age, height, references, salary required, and when disengaged to Jesse Williams & Co., Chemists, Cardiff.

CHINA.—A thoroughly competent Assistant, accustomed to first-class Dispensing and Retail; not over 30 years of age; 4 years' agreement; passage paid out and home. Address, "China," c/o A. S. Watson & Co. (Limited), 8 Fenchurch Buildings, E.C.

COLCHESTER.—Qualified Assistant for Counter, aged about 23 (2, qualified, on staff, both indoors); good experience, references, &c.; salary £60. Full particulars, enclosing c.d.v., to W. Edes Everett, St. Botolph's Pharmacy, Colchester.

CREWE.—Wanted, a thoroughly reliable Assistant (qualified preferred) at once; indoors; hours light; must be active, obliging, and steady; a Junior kept. Usual particulars to Ashfield, the County Drug Stores, Crewe.

DISS.—Wanted, an Assistant (qualified), about 26, used to a good-class Mixed Country business; also an Improver (indoors). Give full particulars, and send photo to Gostling & Co., Chemists, Diss.

FACIT (near Rochdale).—Junior Assistant, Mixed Country trade; reliable and of good character; indoors. References and full particulars to J. Head, Millgate, Facit, near Rochdale.

RETAIL—continued.

HADFIELD.—Energetic Junior or Improver wanted; used to Mixed business; must be willing and obliging; state age, salary required (indoors), if abstainer, and enclose photo (to be returned). Richardson, Chemist, Hadfield, Derbyshire.

HEANOR.—Wanted, immediately, a good Junior Assistant; indoors; Hours 8 to 8; Friday 9.30 P.M., Saturday 11 P.M.; Wednesday afternoon holiday; no Sunday duty. State usual particulars, with photo, reference, &c., Taylor, Chemist, Heanor, Derbyshire.

HEBDEN BRIDGE.—Qualified Assistant, about 26 years of age, for good-class Country business. Please send photo, if convenient (to be returned), stating height, salary required (outdoors), and all other particulars, in first letter, to Thos. K. Hey, Chemist, Hebden Bridge.

HORNCASTLE.—Junior, at once (indoors), for Spa season; 6 months' engagement. Send carte, references, and state salary required, to Carlton & Sons, Chemists, Horncastle and Woodhall Spa.

INDIA.—Required, an Assistant, Minor, about 24 (single), with first-class London West-end experience; 4 years' agreement; passage out and furnished apartments. Apply, by letter, M. R. J., c/o Messrs. Meggeson & Co., 14 Miles Lane, E.C.

LONDON, N.—At once, a smart, trustworthy Assistant of gentlemanly appearance and address; one accustomed to good-class trade; aged from 22 to 26; easy hours; personal interview. T. E. Savage (late Bird), Crouch End, N.

LONDON, N.W.—Junior Assistant wanted; one used to modern cash business preferred. Apply, with usual particulars, salary required, &c., Pembertou & Malcolm, 3 High Road, Willesden Green, N.W.

LONDON, S.W.—Wanted, a qualified Assistant (indoors); two are kept. Apply, with usual particulars, enclosing photo (to be returned), to W. T. Frost, Mason's Pharmacy, Parson's Green, Fulham, S.W.

LONDON, W.—Qualified Senior Assistant; indoors; aged about 24; experienced and reliable Dispenser; accustomed to first-class business; abstainer preferred. State experience, salary required, and enclose photo, or apply personally, R. H. Parker, 35 Clifton Road, Maida Vale, W.

LONDON, E.—Assistant, for the East of London; a German or Polish Jew, accustomed to good-class pharmacy, would be likely to suit the special requirements. Apply, with full particulars, to "Metric" (102/23), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON, N.W.—Qualified Dispenser as Second Assistant required; smart, quick man, and who has been accustomed to a good class of trade, and with a knowledge of Photography. Apply personally, or by letter, with full particulars, and salary required, to Arthur Sangster, 12 College Crescent, Hampstead, N.W.

LONDON, S.E.—Resident Manager, married or single, with West-end experience; an excellent opportunity for a gentleman with ability and energy to acquire Partnership without capital. Write full particulars to "Analyst," 47 Anerley Road, S.E.

LONDON, W.—Qualified Assistant; indoors; must be an experienced and reliable Dispenser, accustomed to good-class business; personal interview preferred. Applications by letter, to state experience, salary expected, and usual particulars, Gould & Co., 456 Oxford Street, W.

LONDON, N.—Immediately, a smart qualified Assistant for Branch; aged from 23 to 30; also an experienced Assistant, competent to take charge; both indoors; liberal salaries; weekly half-holiday; very little Sunday duty. State salary expected, when disengaged, references, &c., "Pharmacist," c/o Messrs. Evans, Lescher & Webb, Bartholomew Close, E.C.

LONDON, N.W.—Wanted, a good Junior for first-class Dispensing and Retail. Apply, after 6 P.M., at 20 New Street, Dorset Square, N.W.

LONDON, W.—£156 per annum.—Wanted, a smart, qualified man, with good experience, as Manager for West-end Branch; also a qualified Dispenser. Apply, Lewis & Burrows (Limited), 22 and 24 Great Portland Street, W.

MARGATE.—Wanted, an Assistant. Please state full particulars of experience, age, height, salary required, and enclose photo, to D. T. Evans, Chemist, Margate.

MANCHESTER.—To Dispensers.—Wanted, an Assistant Dispenser at the Manchester Workhouse Infirmary at Crumpsall. The salary will be 35s. a week, and will be subject to such deductions as are required by the Superannuation Act. Applications, stating previous experience and enclosing copies of testimonials, must be endorsed "Assistant Dispenser," and sent to the undersigned not later than 2 30 P.M. on Wednesday, the 5th prox. Candidates must be fully qualified and certificated dispensers. By order,

GEO. MACDONALD, Clerk to the Guardians.

Poor Law Offices, New Bridge Street, Manchester,
27th April, 1897.

NEWCASTLE-ON-TYNE.—Counter and General Assistant; qualified (Minor or Major); active young man wanted for the North of England; salary £100 per annum; outdoor. Apply, with full particulars, Joseph Roberts, Chemist, Newcastle-on-Tyne.

NOTTINGHAM.—Wanted, a smart, businesslike, qualified Manager, aged 25 to 30, to open Drug Store. State salary and references to Gibson, Chemist, Nottingham.

NEWPORT, I.W.—Wanted, qualified Assistant (outdoors), aged about 23, for good-class Country business; abstainer preferred. Send carte, references, and state salary required to A. Millidge, 47 High Street, Newport, Isle of Wight.

NORTH OF ENGLAND.—Wanted, qualified Assistant, also Junior Assistant, able to Prescribe, for good-class Store-trade; must be active and obliging. Apply, with photos and references, and state salary required in each case, to "Phœnix" (96/5), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

NORTHAMPTON.—Assistant for good Branch, at once; must have exceptional references; unfurnished house. Apply, with photo and usual particulars, Ashford, Northampton.

NORTH WALES.—Wanted, qualified Assistant, to manage a Branch; Welsh essential; must be thoroughly reliable and trustworthy, and have good references; aged 25; outdoors. Apply, with full particulars as to height, salary required, enclosing photo, to G. E. Gratton, Chemist, Blaenau Festiniog, North Wales.

PLYMOUTH.—As Improver, about 18 or 19 years of age; time can be arranged for study and attending classes if desired. Send particulars of experience, &c., with references and photo, to Messrs Turney & Sons, Pharmaceutical Chemists, 183 Union Street, Plymouth.

RAMSGATE.—Wanted, at once, Junior Assistant; indoors. State age, height, and references, H. E. Osborne, Chemist, Ramsgate.

READING.—Wanted, Junior, about 22; indoors; must be steady, of good address, and a reliable Dispenser; Extractor preferred. Apply, giving references and full particulars, to Ashfield, King's Road Pharmacy, Reading.

ROSS-ON-WYE.—Wanted, an experienced Assistant for Dispensing and Light Retail. State salary required, age, height, and references, with photo, A. Porter, Chemist, Ross.

ROTHERHAM (near Sheffield).—Wanted, immediately, active young man to Manage small Branch; must be good Prescriber; preference given to one having knowledge of Store trade and Photography; easy hours; close at 1 Thursdays, no Sunday duty. State full particulars as to age, height, salary, &c., to Coverdale, M.P.S., Rotherham.

SCARBOROUGH.—A qualified Assistant (indoors), for Dispensing and Retail. State full particulars, salary required, &c., enclose photo, Clare & Hunt, Scarborough.

SOUTH AFRICA.—Assistants (qualified) open to accept situations in this rapidly-rising Colony should apply to B. G. Lennon & Co. (Limited), 75 Leadenhall Street, London. Applicants should be of sound health and not over 30 years of age.

SOUTHAMPTON.—An Assistant, not under 21, accustomed to Light Retail and Dispensing; indoors. Address, with full particulars, including salary required, and when disengaged, J. Spearing, Pharmaceutical Chemist, Southampton.

SOUTH COAST.—Active Junior required at once, aged about 20, for old-established Light Retail and Dispensing; hours easy; time for study; evening off weekly; Apprentice kept. Send full particulars, salary required (indoors), and photo (which will be returned) to Fresson, Chemist, Havant, Hants.

SOUTHSEA.—An Assistant (indoors) for good-class Retail and Dispensing. Apply, stating age, height, salary, &c., with photo (to be returned), to J. G. Sangster, Pharmaceutical Chemist, Southsea.

STOCKPORT.—Wanted, a Dispenser and Bookkeeper. Address, stating age, qualifications, and salary required, with references and testimonials, Messrs. Rayner & Keay, Surgeons, Stockport.

STOURBRIDGE.—A good Assistant (indoors), about 22 or 23; a quick and accurate Dispenser, and well up in the Retail. State age, height, and salary required, when disengaged, and enclose carte (if convenient), A. Yeates, Chemist, Stourbridge.

STRATTON.—Assistant, Minor qualification, for country business, single-handed; satisfactory references required. Apply, with usual particulars, to H. Pickard, Chemist, Stratton, Cornwall.

SWANSEA.—A trustworthy Assistant, able to Prescribe and Manage by himself; indoors: need not be qualified; Welsh indispensable. Apply, in first instance, stating salary required, references, &c., to E. Thomas, Chemist, 33 Castle Street, Swansea.

SOUTH COAST.—Wanted, in first-class business on South Coast, a thoroughly competent Assistant, Major or Minor qualification, of gentlemanly and obliging manners, for the present to take charge of Dispensing Counter, with help of Junior. Full particulars and photo to "Epsilon" (102/35), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SUTTON.—Wanted a good useful Junior, about 20; an Improver might do; indoors. Apply, Uttou Blyth, 21 High Street, Sutton, Surrey (12 miles from Victoria or London Bridge).

TUNBRIDGE WELLS.—Batting & Co. want Junior Assistant, for Light Retail and Dispensing, next week; tall, steady, and good Counterman; must write a neat, legible hand; no store hands need apply. State age, height, salary required, and name referee, enclose photo (shall be returned), "Chemists and Dentists," 16 Calverley Road.

WALSALL.—Wanted immediately, a qualified Assistant; must be a good Counterman: outdoors; permanency. Apply, with full particulars, G. Elliott & Son, Pharmaceutical Chemists, Walsall.

WESTERHAM.—Assistant, 26 to 30, to manage; easy hours; board indoors, sleep out; permanency; send photo. Walker, Chemist, Westerham, Kent.

WIGTON.—Manager; qualified; Prescriber, Extractor; pushing, steady man; Mixed Country trade. To save time, apply with fullest references, also state age, married or single, and salary expected (outdoors), to T. M'Call White, Wigton, Cumberland.

WILLENHALL.—Wanted, an active Junior, outdoors, about 20; Extractor preferred. Please state age, experience, height, and salary required, to Edward Walker, Chemist, Willenhall, Staffs.

WINDERMERE.—Birkett & Son, Windermere, require an Assistant (indoors), for good-class Mixed business, aged not over 28. State usual particulars as to age, experience, salary, &c., and references; permanency if suited; applications not answered in three days are declined.

WOODBRIDGE.—At once, a competent Assistant; good Counterman, and with a knowledge of Photographic trade preferred. Apply, stating age, height, salary required, experience, &c., to John Betts & Son, Chemists, Woodbridge, Suffolk.

A GOOD Junior Assistant accustomed to Dispensing and Light Mixed Retail. Address, stating age, reference, and salary required, "Statim," c/o Messrs. Evans, Sons & Co., Hanover Street, Liverpool.

SITUATIONS OPEN CONTD

RETAIL—continued.

IMPROVER or young Junior wanted by elderly Chemist; short hours, no Sunday duty, alternate weekly half-day; comfortable home; possible succession; also Locum-tenens, June 3 to 17. Please send full particulars and terms, "Essex" (103/29), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR Assistant wanted, at once, for good-class suburban business; must be smart, active, and obliging; one with a knowledge of Post-office work and Photography preferred. Apply, giving references and salary, to "Menthol," St. John's College Post Office, 165 Brecknock Road, London, N.W.

TO Dispensers.—Wanted, at once, a qualified Assistant, smart and accurate; easy hours, no Sunday work. Apply by letter, stating age, experience, and salary required, to D. G., 136 Queen Victoria Street, E.C.

WANTED, Junior Assistant, where board and lodging, time for study, and attending classes would be accepted in lieu of salary. F. (100/2), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a smart (qualified) man to take charge of Dispensing department for a limited company. Apply by letter, stating full particulars of previous engagements, age, and salary (outdoors), required, to "Chemist," Chas. Taylor & Co.'s Advertising Offices, 154 to 157 Fleet Street, E.C.

WANTED, at once, a competent and reliable Assistant for first-class Cash Drug Stores; well up in Dispensing and counter trade. Apply, giving full particulars and salary required (indoors), to X., c/o Hodgkinson & Co., 101 Whitecross Street.

WHOLESALE.

LONDON, W.C.—Wanted, a smart youth, accustomed to Laboratory-work; state experience and salary required. Marshalls (Limited), 27 Red Lion Square, Holborn.

NOTTINGHAM.—Dennis & Roberts, Wholesale Druggists, Drysalters, and Oil and Colour Merchants, Nottingham, are in want of an outdoor Assistant with a thorough knowledge of a Mixed trade, and one that is capable of calling upon manufacturers, both as salesman and to collect accounts.

SCOTLAND.—Invoice Clerk, expert at figures, good writer, with thorough practical knowledge of Drug-trade, and capable of pricing invoices himself when required; must be thoroughly steady; state age and salary expected; give particulars of experience and references; copies only of testimonials to be submitted, as originals cannot be returned. Replies to 23/107, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SCOTLAND.—Warehouseman, thoroughly conversant with the Drug-trade and accustomed to control subordinates; must be absolutely steady; state age and salary expected; give particulars of experience and references; copies only of testimonials to be submitted, as originals cannot be returned. Replies to 107/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A JUNIOR Invoice Clerk, in a Wholesale Drug and Patent House; quick writer. State age and salary required, to 5/101, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A LEADING London firm require a provincial representative to call upon Physicians and Pharmacists; must be of gentlemanly appearance and address, and possess an intimate knowledge of Medicine and Pharmacy. Apply, stating age, salary required, experience, and qualifications, to F. R. & Co., c/o Farhni's, 28 Great Marlborough Street, W.

A THOROUGHLY competent Forewoman wanted, to superintend a number of girls putting up Medicines; only those who have filled similar situations need apply. Write in first place, to "Modern" (103/3), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLERS required for the sale of a high-class speciality; those having a connection among Chemists and Stores preferred. C. S. (106/67), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER wanted, for town and suburbs, to sell Sponges and Chamois Leathers; salary and commission; must have good connection. Address, by letter, to A. B., at Horncastle's, 61 Cheapside, London, E.C.

TRAVELLER wanted, by a well-known London Sundry house, to represent them in Lancashire, Cheshire, North Wales, and Ireland; a really good opening for a smart man. M. (107/17), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER wanted, with one other commission, to call upon Chemists in London and suburbs, with line of Perfumery. Address, in first instance, to E. M. C. (105/10), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, by a firm of Wholesale Druggists, a smart young Clerk; must be of good appearance. Apply, stating age, experience, and salary expected, to G. K., 38 Wilson Street, E.C.

WANTED, a youth accustomed to getting up orders in a Wholesale Patent-medicine house. State age, experience, and wages required, to 101/5, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, by Manufacturing firm, an active Salesman, with practical knowledge of Pharmacy, to call on Physicians and Chemists, London and country. Apply, stating age, experience, and salary expected, to 108/56, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

LOCUM; disengaged. Bishop, 4 Carlton Terrace, Walthamstow.

AS Locum; good references; qualified. Hayward, 41 St. Julian's Road, Kilburn.

MANAGER; disengaged; qualified; Dentist; aged 40. Lea, Church Hill, Penistone.

GOOD all-round quick trade; in or out; disengaged; 44. D., Pearce's, Chemist, Edmonton.

LOCUM, weekly or daily; first-class experience. N. T., 1 South Crescent, Store Street, W.C.

MANAGER, London; 5 years' reference. "Chemicus," Thompson's Library, Brockley, S.E.

QUALIFIED; good experience, including Photography. "Metol," 33 Luue Street, Preston.

JUNIOR; 18; outdoors; London; 4 years' experience. "Rhei," c/o Mr. Loveridge, Faringdon.

LOCUM; part-time; 10 years' London experience. "Chemist," 5 Belgrave Terrace, Teignmouth.

PART-TIME; morning preferred; good experience; 24. Eversleigh, Marlborough Road, Watford.

LOCUM; qualified; first-class London experience. "Locum," 4 Guilford Place, London, W.C.

LABORATORY or Wet Counter Assistant; good experience. "Rhei," 35 Linsey Street, Bermondsey.

LOCUM-TENENS; experienced Dispenser and Bookkeeper, "Omega," 28 Cutram Street, Darlington.

LOCUM or Assistant; good experience; disengaged. "Chemicus," 5 Victoria Terrace, Weymouth.

LOCUM; disengaged Tuesday, Wednesday, Thursday, Saturday. G. G., 107 Carlyle Road, Manor Park.

JUNIOR; outdoors; 22½; 6 years' experience; disengaged. Wright, Ellen Terrace, Sandal, Wakefield.

MANAGER or Locum; whole or part time; qualified; disengaged. 1 Berkeley Road, Crouch End, N.

PART-TIME; from 9 A.M. to 5 P.M.; West-end experience. "Argon," 49 Southfields Road, Wandsworth.

ASSISTANT (22); 6½ years' experience; outdoors preferred. "Radix," 11 South Street, Manchester Square.

LOCUM or Manager; disengaged; experienced; qualified; 45. "Chemist," 42 Maybrick Road, Bath.

QUALIFIED; 23; 6 years' good-class experience; London preferred. "Winter," 39 Dalberg Road, Brixton.

MANAGER or permanency; excellent references; good experience. E. C. Last, 136 London Road, Ipswich.

JUNIOR; 20; 5 ft. 10 in.; 4 years' Apprenticeship in Eastbourne. Clouting, Hartington Grove, Cambridge.

JUNIOR; 20; good reference; outdoors; London. A. W., c/o Edwards & Son, Upper Thames Street, E.C.

ASSISTANT; 29; London; disengaged; height 5 ft. 11 in.; gentlemanly. T. H. M., 272 Old Kent Road, S.E.

LOCUM-TENENS; original testimonials forwarded on application. H., 129 Winston Road, Stoke Newington, N.

SOUTH AFRICA.—Manager or Assistant; qualified; highest references. Tindale, Hanover Terrace, Whitby.

QUALIFIED Assistant, or Branch Manager; married; disengaged. "Chemist," 23 Hartington Road, Brighton.

LOCUM-TENENS or Temporary Assistant; aged 43; qualified. C. M., 1 Stratford Villas, Camden Square, N.W.

LOCUM or temporary; 26; experienced; excellent testimonials; dates booked. "Locum," 17 Ramsden Terrace, Leeds.

LONDON.—Part or full-time, with short hours; outdoor; qualified; 22. Webb, 89 Brook Street, Kennington, S.E.

SATURDAY-HELP, afternoons and evenings; disengaged. "Chemist," 67 Lamb's Conduit Street, London, W.C.

ASSISTANT; aged 27; good Counterman; unqualified. Address, "Dulcis," 3 Rodney Place, Walworth, London, S.E.

OUTDOOR: London or near; Retail and Prescribing; disengaged. Morris, 189 St. Leonard's Street, Bromley, Middlesex.

MANAGER; previous experience; 26; permanent; reliable; disengaged. "Manager," Mr. Geo. Montford, Market Drayton.

LOCUM TENENS; qualified; aged 51; unexceptional references. W. E. Jones, Greenfield Villas, Llanelly, Carmarthenshire.

DISPENSER (thorough); disengaged; good character; London preferred. J. A., 70 Monega Road, Gipsy Lane, Forest Gate, E.

ASSISTANT; 24; unqualified; good experience; whole or part time. W. S., 14 Wellington Road, Stockwell, London, S.W.

ASSISTANT; outdoors; 25; 10 years' good town and country experience; disengaged. Evans, 33 Trinity Square, Borough, S.E.

PART-TIME or Surgeon's Dispenser; 20; good reference; Darlington or Leeds preferred. Lee, 18 Osbourne Terrace, Darlington.

BRANCH-MANAGER; 5 years last berth; married; aged 36; West-end experience. "Alpha," 133 Morville Street, Bow, London, E.

RETAIL—continued.

LOCUM or outdoor permanency as Counterman; unqualified; highest references; London or suburbs. "Delta," 19 Devonport Road, W.

OUTDOOR Assistant, 7 years' experience (2 in London), desires London situation; good references. N., 47 High Street, Dundee.

JUNIOR; 20; 5 years' experience (Dispensing, &c.); height 5 ft. 10 in.; outdoors preferred; disengaged. E. S., 29 Wilberforce Street, Hull.

TEMPORARY or permanent Branch Manager; 28; qualified; good West-end experience; references. Retallack, Mevagissey, Cornwall.

MANAGER, married; qualified; 28; country preferred; best London West End experience. Albert, 40 Woodstock Road, Finsbury Park.

QUALIFIED Manager or First Assistant, in London; 25; 4½ years' London, 4 years' country experience; references. Slater, 165 York Road, N.

FOR season or otherwise; now disengaged; 14 years' good experience. "Carl" (99/10), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSER to Surgeon or firm of Surgeons; excellent references; aged 24; London or suburbs. "Student," 25 Zigzag Road, Liscard, Cheshire.

EVENING Employment in chemist's; 7 years' Wholesale experience; South London preferred. "Filius," c/o Mr. Phillips, 118 Blackfriars Road, S.E.

ASSISTANT or Doctor's Dispenser in Hull; outdoors; 25; 7 years' experience; abstainer; Extract; Prescribe. B. C., 37 Redbourne Street, Hull.

MINOR; aged 24; London preferred; outdoors; excellent references. "Veritas" (101/17), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; 24; unqualified; good references; outdoors; Drug Stores preferred. 102/33, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT, in London, near Watson Will; aged 28; references excellent; knowledge of Photography. Jones, South Lindeth, Silverdale, Carnforth.

TEMPORARY; London; aged 30; qualified; accustomed to management. "Statim" (106/12), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR; Dispensing business; West-end experience; Minor student; London preferred. "Student" (104/16), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

COLONIES or Far East.—Advertiser desires engagement; qualified; varied experience; aged 27. 104/13, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BRANCH; outdoors or temporary; middle-aged; Extractor; unqualified; town or suburbs preferred. "Quinine" (105/24), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT (outdoors) or Branch Manager; qualified; 8 years' experience; good Dispenser; London or large seaside town preferred; personal interview, if desired. Siminson, Warminster, Wilts.

MANAGER; qualified by examination; good Prescriber; 20 years' experience; married; highest references; a permanency particularly desired. "Tempus," Clyde House, West Parade, Norwich.

QUALIFIED; 20 years' experience; good references (family); Dispensership, Firm of Surgeons; Hospital, Managership for widow; or other suitable position. "Alpha," 26 High Street, Abergavenny.

MANAGER, thorough knowledge Wholesale Fancy Druggist trade; qualified; married; outdoors; 32; Retail or Wholesale. "Chemist" 101/34, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SCOTSMAN; 23; 5 ft. 9 in.; first-class Dispenser and Counterman; good appearance; Extractor; knowledge of Photography and Surgical Instruments; would take Laboratory work, or go abroad. "Hydrastin," 90 Wyndam Road, Cardiff.

ASSISTANT, experienced in making and putting up Preparations, Proprietaries, Formulæ in large quantities; thoroughly reliable; excellent references; aged 26. "Chemist," 9 Boston Villas, Hermitage Road, Finsbury Park, N.

ASSISTANT; smart counterman and Dispenser, experienced in putting up preparations in large quantities; London stores preferred; aged 26; excellent experience and references. "Chemist," 22 Eastbourne Road, Stamford Hill, N.

JUNIOR, aged over 20, in good house of business (indoors), where two or more Assistants are engaged; passed Preliminary; served over 4 years in country business; total abstainer. Address, W. P., c/o Mr. Pickard, Chemist, Stratton, Cornwall.

MANAGER-ASSISTANT, with view to ultimate succession, on mutual terms preferred; modest capital; excellent references; aged 30; Midlands or North. "Ferrum" (102/36), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER, with view to early succession; aged 28; unmarried, tall, smart appearance; accustomed to modern style and methods; well up in Photography and Optics; undeniable references. Apply, "Optios" (99/36), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE.

WANTED, an Agency for Artificial Manures to sell cheap. Dean, Chemist, Desborough.

TRAVELLER; Drugs or Sundries; first-class references. W. D., 1 South Crescent, Store Street, W.C.

YOUNG man, aged 20, requires situation as Warehouseman; 3 years' reference. Address, Durrant, 164 Old Kent Road, Southwark, S.E.

TRAVELLER; Sundries or Specialities; 10 years' connection in the country. "Energy," 2 Bonar Road, Commercial Road, Peckham, S.E.

GENTLEMAN, 7 years in first-class Retail, good address, smart, 23, as Representative for Chemists' or Sundry House or similar position. R., 1 Brookfield Avenue, Harehills, Leeds.

TRAVELLER, Drugs or Sundries; 25 years' Wholesale and Retail experience; can introduce thoroughly tried Proprietaries on mutual terms. "Drugs," Nevern House, Caversham Road, Reading.

TRAVELLER, calling on Chemists and Grocers, representing first-class English house in Ireland, wishes to meet with another who would pay part salary and expenses. "Medicus," 26 Stephen's Green, N., Dublin.

ENERGETIC, pushing Druggist (25), single, absolved Academy in Brunswick, having had his own business, wants immediate engagement abroad as Warehouseman, or for German correspondence. Address, S. 759, c/o Haasenstein & Vogler A.-G., Leipzig.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

AUTOMATIC WINDOW ADVERTISING Figures and Devices, Revolving Show Stands, &c.; new lists. Darney & Co., 330 High Holborn, London.

MANCHESTER DISTRICT.—Minor and Major Examinations; private tutor has vacancies for two or three evening students; full elementary course; revision course for advanced students. Particulars, Webber, 41 Johnson Street, Cheetham, Manchester.

ESSENTIAL OILS.—Agents wanted, in all principal towns of U.K., by first-class Distillery. Those with good connections among Soap-makers, Wholesale Druggists, Confectioners, &c., will apply 109/64, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DAISY Window Attractions are so successful that Mr. Agar, chemist, South Bank, wrote to say that had he not occasionally taken it out, the window would most certainly have been pressed in by the crowd. If you want your window smashing thus, write for particulars. "Daisy," Leeds.

WINDOW Attractions.—Moving models given free and not returnable, with "Kure-Yu" Headache, Tic, and Neuralgic Powders; 20 per cent. more profit; much better got up than its rivals; first in 1889 and still the best. Write for terms and free 1*s.* Box (20), to Bridgwater's (Limited), Chemists, West Bromwich. No cutting allowed.

SULPHUR tablets, and sulphur and sarsaparilla tablets; the best made; send for samples free; sulphur tablets, 2 cwt. at 36*s.*, 1 cwt. at 38*s.*, ½-cwt. at 21*s.*, under 5*d.* lb.; sulphur and sarsaparilla, 2 cwt. at 41*s.*, 1 cwt. at 45*s.*, ½ cwt. 25*s.*, under 28 lbs. at 6*d.*; all carriage paid, cases free; window tickets supplied free, various priced wordings. White, Chemist, Leicester.

ADVERTISERS (who are in Canada) desire to enter into business relations with Manufacturers of Chemical Glassware, Porcelain goods, Blowpipe supplies, and general Iron and Brass apparatus used by Assayers and Chemists. In first instance, send price-lists, terms, and full particulars to "Assayers," c/o Shelley's Advertising Offices, Gracechurch Street, London.

CHEMISTS' Shop-fixtures.—Ranges mahogany drawers, with bevelled edge glass labels and out-glass knobs, shelving above, lockers below; mahogany dispensing-screens; counters with glass-case fronts; wall-cases; bent-front and flat-top counter-cases; counter-desks; tooth-brush cases; complete shop-rounds, &c.; every requisite for chemists, new and second-hand; extensive stock to select from, at extremely low prices; practical men sent to all parts; estimates free. Matthews, Chemists' Fitter, 14 Manchester Street, Liverpool.

SHOP-FITTINGS.—Complete set, ready for immediate delivery and use, modern style and excellent condition: 12-ft. wall-fitting, mahogany-fronted drug-drawers, glass labels and knobs, lockers, cornice, shelving, and pilasters; 10-ft. mahogany and plate-glass serving-counter with label, paper, and till drawers; 6-ft. handsome mirror-centre dispensing-screen with plate-glass counter and sponge case under; 4-ft. mahogany and bent plate-glass counter-case with display shelves; mahogany desk and plate-glass perfume-case; 6-ft. wall show-case fitted with shelves and mahogany top recess. Price 50 guineas complete. To anyone wishing to open a store or branch an especial bargain; or would divide. Philip Josephs, 54 Old Street, City Road, London, E.C.

TO be Sold, immediately, high-class Stock of Chemist's Fittings, including elaborate ranges of solid mahogany-fronted drawers, fitted with bevelled-edge labels, crystal-cut knobs, 10 to 20 ft. long; also ranges of shelving and lockers to match; 20 plate-glass fronted counters, mahogany tops, the backs fitted with numerous drawers, including cash, label drawers, &c.; solid mahogany wall-cases with movable shelves, 6 ft. to 20 ft. long; immense stock of window-enclosures, bent-glass show-cases, sponge-cases, massive dispensing-screens, from 70*s.* upwards, and everything appertaining to the Chemist's business. Shops, &c., fitted up entirely within a fortnight's notice, from £50 upwards, by most experienced men. Write for testimonials, Edwards & Co., Medical Fitters, 108 Whitechapel, Liverpool.

CUCUMBER AND GLYCERINE.

ROUSE'S Cucumber Paste is the best for preparing Cucumber Emulsion of any kind; sheet of formulæ and attractive labels free with each jar; ½ lb. (for 3 lbs. emulsion), 2*s.* 3*d.*; 1 lb., 4*s.* 3*d.*; 7 lb., 25*s.*; each post free. Rouse Brothers, 61 Charlotte Street, London, W.

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STUDENTS! Write to-day for a "Guide to Examination," gratis and post free, giving the best advice how to prepare. Knotty Points in Latin Grammar, 1*s.* 6*d.*; Cæsar Simplified, 1*s.*; Metric System Simplified, 1*s.*; How to Write an Essay, 3*d.*; Equations Simplified, 1*s.*; Notes on Dispensing, 1*s.*, post free. Mr. J. Tully (Hills Prizeman), Chemist, Hastings.

Exchange Column—Bargains

TERMS.

DEPOSIT.—The purchaser of anything advertised in the Exchange Column may remit the amount to us, and we only pay the money deposited on advice from the remitter. We charge a commission of 6*d.* on any transaction of £3 or less, or 1*s.* if above that amount.

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APPARATUS.

Three-grain pill-machine, good condition; what offers? BÜCHER, Truro.

For Sale.—Enterprise tincture-press; pair upright brass counter-scales; cheap. CELANDINE, Hereford.

Compressed tablets: Keystone-machine, 3 dies, in good order; what offers? 100/33, Office of the *C. & D.*

For Sale.—Water-bed, 72 by 36; patent mineralised pillow, 22 by 18; bottle, Maw's, 10 by 7; good condition. F., 16 Albert Square, S.W.

Bell-metal mortar, 12-pint capacity; amputating-saw, Maw, fig. 50; offers or exchange for shop-rounds, &c. BURNETT, Chemist, Sherborne.

Vulcaniser, centre-screw, 2-flask, thermometer and burner, thoroughly good condition, £2; nitrous-oxide apparatus, portable, in case, with face-piece, 50-gall. bath, good condition, £4; would take £5 cash for the two. NATHAN SMITH, Chelmsford.

BOOKS AND PERIODICALS.

Offers wanted for *C. & D.* journal, 1895 and 1896; condition good. HUDDLESTONE, Parsonage Street, Heaton Norris, Stockport.

Prantl & Vine's "Botany," 5th edition; Watts's "Inorganic Chemistry" (Fowne's 14th edition); both new, unused; best offer. DEAN, Desborough.

Minor books.—Bentley's "Materia Medica," Green's "Botany," Bentley's "Botany," Everitt's "Physics," Ince's "Latin Grammar," Newth's "Inorganic Chemistry"; offers wanted. HAWLEY, Sunnyside, Aigburth, Liverpool.

Attfield's "Pharmaceutical Chemistry" (12*s.* 6*d.*), for 6*s.* 6*d.*; "Taylor on Poisons," 2nd edition (14*s.*), for 7*s.*; Druitt's "Surgeon's Vade Mecum," 2nd edition, 6*s.* 6*d.*; Fowne's "Chemistry," 9th edition, 6*s.*; Alpe's "Medicine-stamp Duty," 1*s.* 9*d.*; Oakley Cole's "Manual of Dental Mechanics," 5*s.*; 14 vols. *Year-book of Pharmacy*, 1870 to 1884 inclusive (1883 short), all neatly bound in green morocco, 2*s.* 6*d.* each, or offers; Martindale's "Extra Pharmacopœia," 7th edition, new, 4*s.* 6*d.* NORBURY, 61 Hawkshead Street, Southport.

DRUGS AND CHEMICALS.

For Sale, 10 gallons compound syrup of trifolium, to clear at sacrifice; in good condition. 30/7, Office of the *C. & D.*

FORMULÆ.

Book of 130 well-tried recipes for chemists; general, remedial, veterinary, toilet; post free, 1*s.* 6*d.* TULLY, Chemist, Hastings.

Genuine; worth attention.—Splendid furniture-cream recipe, 1*s.* 6*d.*; also special book 20 well-tested and reliable recipes, 2*s.* 6*d.*; lot 3*s.* 6*d.*, post free H. L. ROSE, 4 St. Leonards Place, Alcester Road, Moseley, Birmingham.

OPTICAL AND PHOTOGRAPHIC.

74 microscope-slides, 2*s.* 3*d.* doz., 12*s.* the lot; exchange; approval. LINTIN, 170 Freedom Road, Sheffield.

Lancaster's ¼-plate omnigraph, 17*s.* 6*d.*; ¼-plate instantograph, 35*s.*, ½-plate instantograph, £3 10*s.*, both complete (lens, shutter, slide and stand), all new and perfect, but shop-worn, not been used; ½-plate instantograph, fitted with rectilinear lens, 3 double dark-slides and stand, in good condition, list price £3 19*s.* 6*d.*, will take £3; lenses: 5 by 4 rectilinear (Dallmeyer), £3; 12 by 10 rectilinear, 50*s.*; ½-plate rectilinear, with iris diaphragm, 30*s.*; cash or exchange for saleable patents. BIRKBECK, Chemist, Lincoln.

SHARES.

200 Barclay & Sons (Limited) preference shares, average 6 per cent., 12*s.* paid, and 100 ordinary ditto, £1 fully paid, cum div. 5 per cent. just declared; will accept £200; this is a perfectly safe investment. J. H. S., North Road, Atherton.

PROPRIETARY ARTICLES.

Beecham's pills, 1 doz., 2*s.* 9*d.* size, clean, 24*s.*, free. BURGE, Fernhead, Paddington.

Two gross Frog-in-your-Throat, cost £6, £4 10*s.* cash; never opened. 99/37, Office of the *C. & D.*

Must be sold; any price taken to clear; £10 or offer.—Sequah remedies: 238 pots eye-ointment, 382 bottles blood-purifier, 1,040 pots skin-ointment, 2,000 bottles instant relief; not stamped; lying at Brewer's Quay. A. Z., 70 and 71 Bishopsgate Street, London, E.C.

Will send for cash with order to value of 2*l.*, assorted, carriage paid:—Quinine, 9*d.* oz., 4 oz. 2*s.* 10*d.*; silverleaf, 7*d.* book, 5 books 2*s* 6*d*; 2*s.* 6*d.* Rimmel's vinegar, 16*s.* 8*d.*; 1*s.* ditto, 7*s.* 3*d.*; homocea 10*s.*; Valentine's juice, 33*s.*; Beecham's pills, 9*s.* 6*d.*; Carter's pills, 11*s.*; Condy's fluid, 9*s.*; Sanitas, 9*s.*; Steedman's powders, 22*s.*; Scrubb's, 9*s.* 3*d.*; Mellin's emulsion, 17*s.*; Roche's embrocation, 34*s.*; Owbridge's tonic, 8*s.* 7*d.*; Wright's coal-tar soap, 9*s.* 6*d.* APLIN, Chislehurst.

SHOP FITTINGS.

Offers; 5 specie-jars, good condition, with stands; the lot, or separate. APLIN, Chislehurst.

Chemist's handsome street lamp and standard iron pillar, cheap. THOMPSON, 1 Frederick Street, Edinburgh.

For Sale.—20-inch globe-lamp, ruby-and-blue flashed-glass, figured enrichments, arm complete. OXLEY, 206 Southwark Bridge Road, S.E.

Outside-lamp and bracket; also upright show-case, desk with glass-case in front; second-hand, cheap. "CHEMIST," 197 Park Lane, Tottenham.

For Sale.—2 10-gall. pear-shape carboys, large specie-jar, also beautiful solid mahogany carved desk, by Treble, cost £6 6*s.*; all cheap. DALE, 76 Meadow Street, Weston-super-Mare.

WANTED.

To hire window-attractions; to purchase tooth-forceps. DEAN, Chemist, Desborough.

Check-till, Gledhill's, 3⅞-inch rolls. Full description and price, SHAW, 8 Burnley Road, Accrington.

Few bottles Churchill's spirone, either size, good condition. Price to GLAISYER & KEMP, Brighton.

A second-hand dispensing-screen. State size and full particulars to CHEERS & HOPLEY, Chemists, Chester.

Sponge-case, suitable for floor-display. Condition and cash-price to BLOUNT, Chemist, Fenham Road, Newcastle.

"Minor Ailments," Wills's "Volumetric Analysis," Wootton's "Problems." HOWITT, 36 Pevensey Road, Eastbourne.

"Journal of the Society of Chemical Industry" for 1882, 1883, and 1895. Price to J. P., 16 Chaucer Street, Leicester.

Copy Arnold's illustrated instrument-catalogue, latest edition. State price to GEORGE PHILLIPS, 88 Richmond Road, Ilford, Essex.

Dental.—Any quantity of odd pinned and diatoric teeth or sets, also dental engine and N_2O gas apparatus. STEWART, Dentist, Campbeltown.

Counter-case, after style Maw's fig. 5; nest of shallow partitioned label, cut-paper, and till drawers; must be good and cheap. CELANDINE, Hereford.

Shop fittings.—Modern mahogany fittings; a complete outfit, including counters, cases, bottles, &c., would be taken if high-class and reasonable. 101/10, Office of the *C. & D.*

Green's "Botany," 2 vols., "Pharmacographia," Muter's "Analysis," Clowes and Coleman's "Quantitative Analysis," Bower's "Practical Botany"; latest editions; approval. BILLS, Heath Street, Stourbridge.

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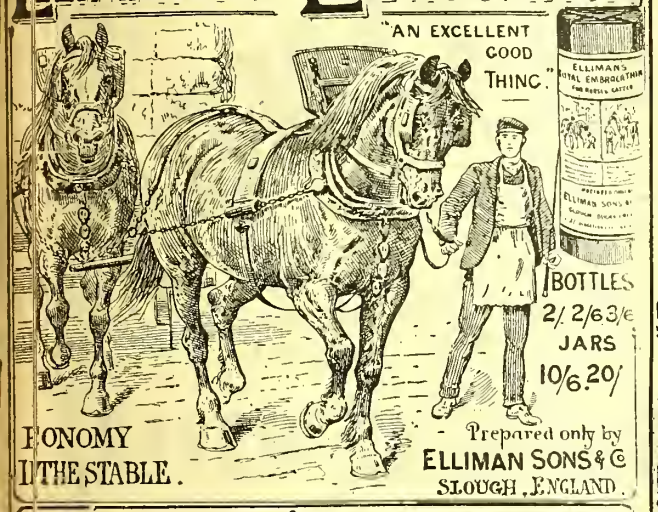

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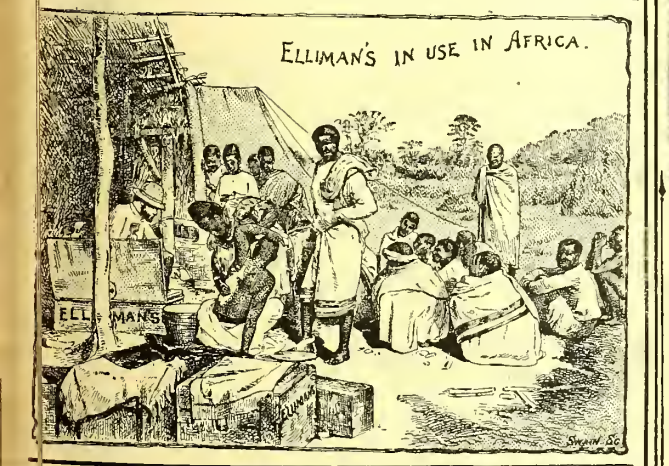

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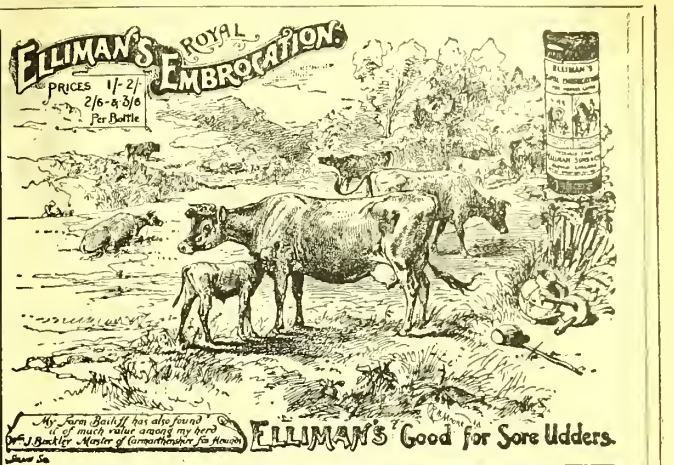

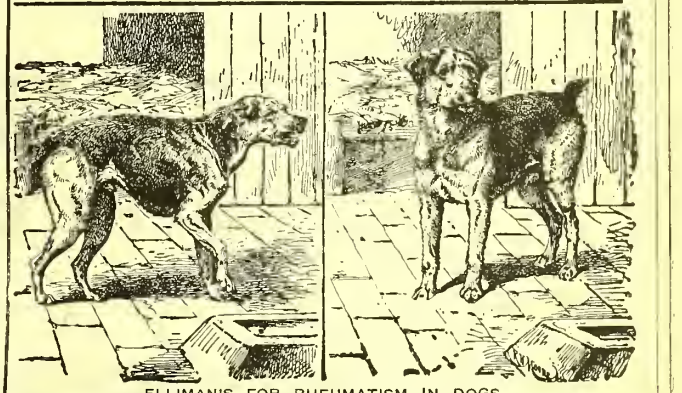

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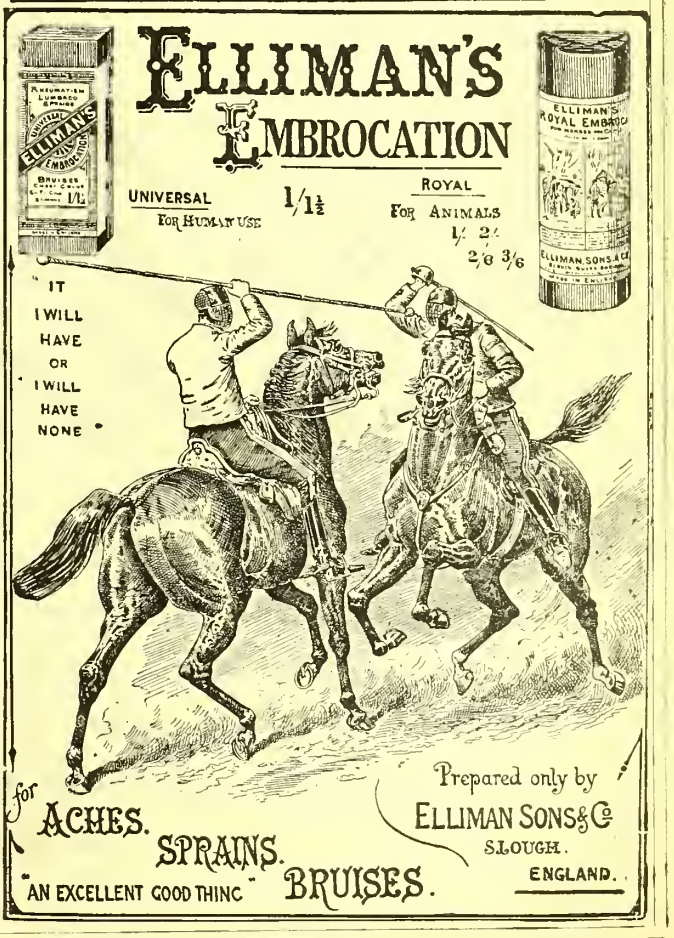

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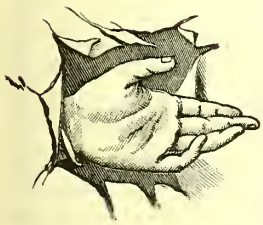

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PROSPECTUS.

THIS Company has been formed under a scheme of reconstruction for the purpose of acquiring and taking over the well-known and old-established undertaking of the Company of Singleton & Cole, Limited, Importers, Manufacturers, and Dealers in Tobacco, Cigars, Cigarettes, Snuff, and Tobacconists' Fancy Goods.

The old Company issued £5 per cent. Mortgage Debentures to the amount of £20,000, repayable at Six months' notice at the option of the Company. It is not proposed at present to pay off these Debentures, as the money can be profitably employed in the business, and the new Company will take over the undertaking subject to such Debentures.

The gradual and steady building up of the business is a sufficient assurance of its permanent stability. Originally it consisted of two well-established private partnerships trading as Tobacco Manufacturers—namely, "Singleton & Cole," at Wolverhampton, and "S. & C Harries & Son," at Shrewsbury. The former had an extensive connection in the Midland Counties; the latter in Shropshire and North and South Wales. The two businesses which, under the style of "Singleton & Cole," became united, were thenceforward carried on successfully by the late Mr. John Singleton and Mr. Joseph Cole until turned into a limited Company eleven years ago, under the management of Mr. Joseph Cole, whose engagement as General Manager of the Company has still nine years to run. Although this engagement will expire with the cessation of the old Company, Mr. Cole has entered into a fresh agreement with the new Company, under which he will continue to act as Manager for a period of fourteen years. The capital of the old Company was £20,000, in 4,000 Shares of £5 each. The whole of the Capital, together with the £20,000 raised on Debentures, has been employed in the business of the Company.

The old Company acquired, and are now possessed of, the Freehold Factory and Premises, Nos. 22 and 23 Mardol, in Shrewsbury, with the Plant, Machinery, Fixtures, and Fittings; also certain Leasehold Premises in Dudley Street, Bilston Street, and Market Street, in Wolverhampton, with the Plant and Fittings; and the Leasehold Premises in Birmingham, with the Machinery and Plant; and Leasehold

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During the first five years of the existence of the old Company a uniform dividend of Seven per cent. was paid, and in addition a bonus of Five per cent. was paid at the end of that period. During the second five years Seven per cent. was again paid throughout, and at the expiration of that time a bonus of Ten per cent. was paid. For the following year ending December 31st, 1896, a dividend at the rate of Ten per cent. was declared, making a total of Eight per cent. for the first period, Nine per cent. for the second, and Ten per cent. for the third.

The old Company having reached the limit of their capital in accordance with the Articles of Association, it is now found necessary to reconstruct the Company. The large and increasing volume of business now done, and the desirability of purchasing some of the Freehold and Leasehold Properties occupied by them, at a cost of over £20,000, make this step imperative. The Directors are satisfied that a much larger capital can be safely and profitably employed in the legitimate development of the business of the Company on the soundest commercial principles and in a bonâ-fide extension of trading operations amongst retail traders throughout the United Kingdom, and they now propose to increase the capital of the Company to £100,000, by issuing £1 Ordinary Shares on the following basis, viz.:—Every existing Shareholder to receive ten £1 Shares for each £5 original Share, leaving £60,000 to be subscribed for.

With regard to the additional capital, the Customers of the Company and the existing Share and Debenture holders applying for Shares, will receive precedence in allotment; the latter in proportion to their present holdings, after Customers are satisfied. It is deemed advisable to adopt this plan so that those dealing with the Company may reap the benefit of the business they introduce into the concern, and thus possess a double interest in the money they invest.

Judged by the earnings of the past, with the smallest possible working capital, the business has shown its capacity for yielding substantial profits, and therefore, with the advantages of increased capital, intending investors can rely upon a thoroughly sound and safe investment, which, it is confidently anticipated, will yield them *at least* Five per cent. for their money, and very probably considerably more.

The Company possesses a well-appointed modern Factory in Shrewsbury, where labour is cheap (there being no other Factories in the town), together with the branch establishments in Shrewsbury, Walsall, Wolverhampton, and Birmingham; the last-named being the head factoring depôt, and by far the largest business of its class in the United Kingdom.

As successors to an old-established firm, and the originators of the "Mixed Parcel" system, the Company possesses many advantages to which no other Company can lay claim, and they have probably the largest "Cash with Order" business of any house in the tobacco trade.

Applications for Shares should be made upon the form accompanying the Prospectus and forwarded to the Bankers of the Company, together with the amount payable on application. If no allotment is made the deposit will be returned without deduction, and where the number of Shares allotted is less than the number applied for, the surplus will be credited in reduction of the amount payable on allotment.

The following Contracts have been made, namely:—(1) An Agreement dated the 13th day of April, 1897, and made between Singleton & Cole, Limited (thereinafter called the "Old Co."), and its Liquidator of the one part, and Singleton & Cole, Limited (thereinafter called the "New Company"), of the other part. (2) An Agreement dated the 13th day of April, 1897, and made between Singleton & Cole, Limited (therein called the new Company), of the one part, and the said Joseph Cole of the other part. The business is taken over as a going concern as from 1st January, 1897, from which date the new Company will receive the profits; and will undertake to adopt, perform and fulfil all contracts and engagements binding upon the old Company. Such other contracts are only of the ordinary trade character, but it is impossible to specify them, and there may be also other contracts which may technically fall within section 38 of the Companies Act, 1867. Applicants for Shares shall be deemed to have had notice of all these Contracts, and to have waived their right to be supplied with particulars of such Contracts, or any of them, whether under the said section or otherwise.

Having regard to the increased Capital that will be brought into the business, it is now proposed to strengthen the Directorate by electing as a Director Mr. George William Singleton, who has for several years had the management of the Birmingham Branch.

Forms of application for Shares may be obtained from the Company's Secretary or Bankers.

Copies of the Memorandum and Articles of Association of the Company and of the two Contracts specifically above mentioned may be inspected at the office of the Company's Solicitor.

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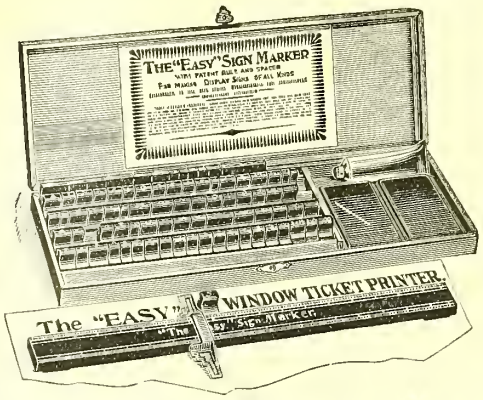

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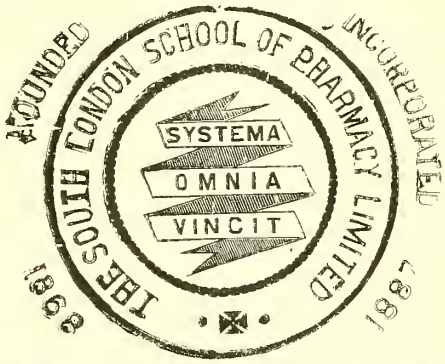

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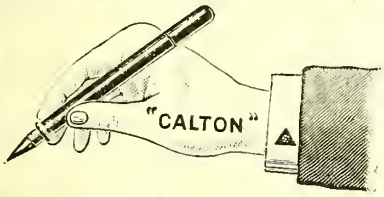

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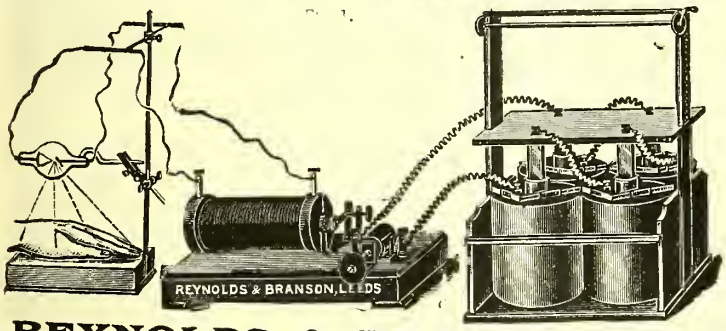

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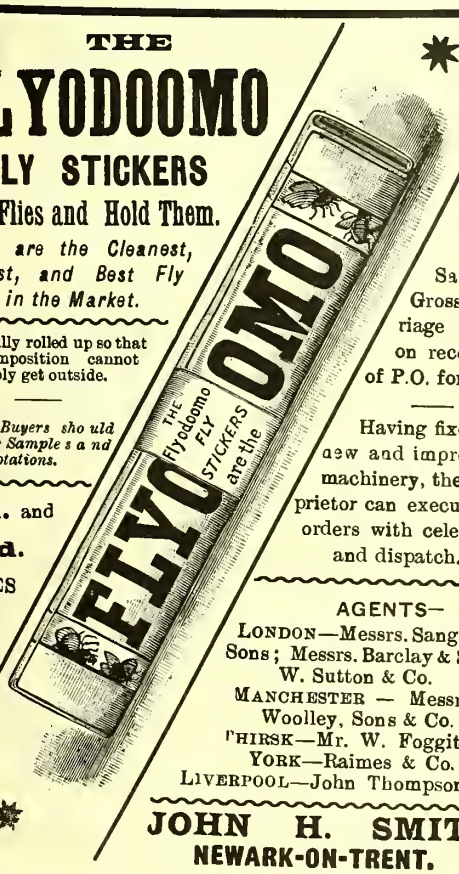

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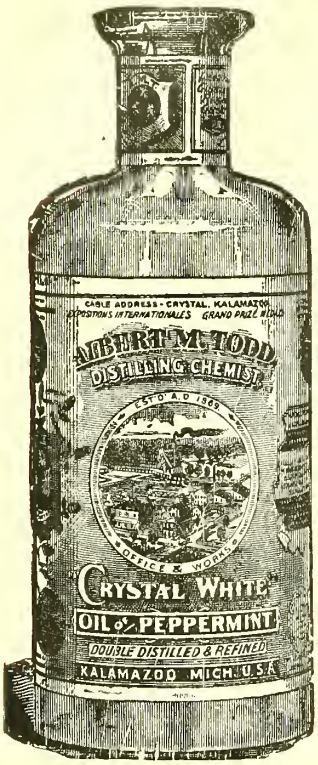

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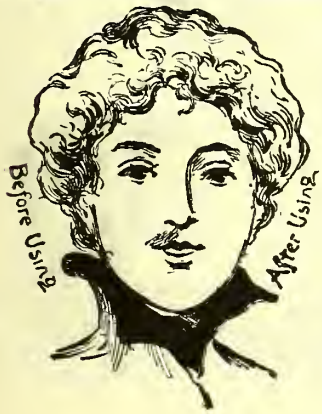

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It is not for the Proprietor of **Jameson's Arsenical Complexion Soap** to instruct the trade as to the manner in which it shall conduct its business, but he takes this opportunity of declaring that he will, after this notice, defend any Chemist against prosecution under the Pharmacy Act, provided he has himself fulfilled the statutory obligations.

Please note that holders of **Jameson's Arsenical Complexion Soap** are requested to send a Post Card notifying the same, and a warranty, which, as before stated, is a certain protection against prosecution, will, with a supply of labels for complying with the Pharmacy Act, be forwarded per return.

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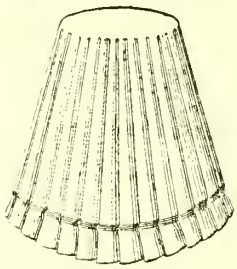

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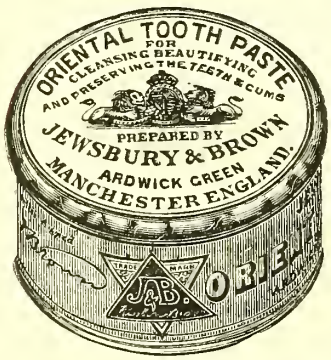

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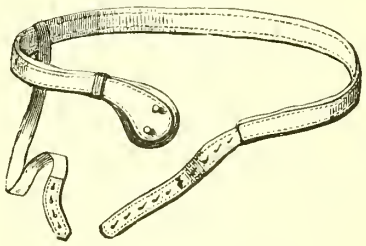


Fig. 2.—DOUBLE.

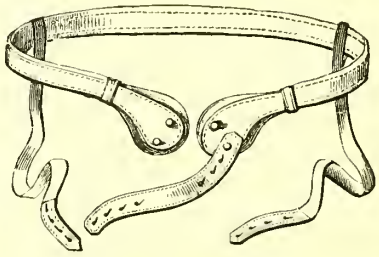
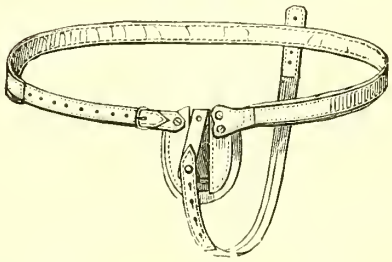


Fig. 3.—SINGLE.



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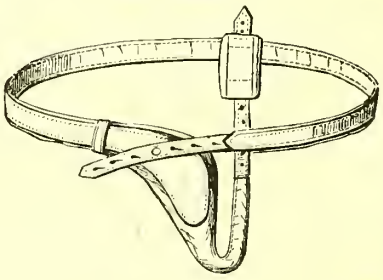

1368A.	Fig. 1, Covered in Basil and Moleskin	per doz.	**13/6**
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Southall Bros. & Barclay

DISINFECTANTS
Beedzler & Co.
Calvert, F. C., & Co.
Dussek Bros.
Fletcher Bros. & Co.
Government Sanitary Co.
Granville, A., & Co.
Hebden, W. C. | "Izal"
Jeyes'SanitaryCompounds Co.
Kay Bros., Lim.
Kühn,B.(Chinosol.Kresochins)
Mackey, Mackey & Co.
May & Baker, Lim.
National Chemical Co.
Ness & Co.
"Nestor" Sanitary Fluid Co.
Read, Holiday & Co.
Sanitas Co., Lim.
Steel, J. C., & Co.
Tuson's Disinfectants Co., Ld.
Tyrer, T., & Co.

DOG MEDICINES
Lloyd, T. Howard
Spratt's Patent, Lim.

DRUGGISTS' SUN.
Ayrton & Saunders
Barclay & Sons, Lim.
Bleasdale & Co., Lim.
Dailley & Wilkinson
Cartwright, A. S.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fordham, W. B., & Sons, Lim.
Hovenden & Sons
Kahler, G., & Co.
Kay Bros., Lim.
Marshalls, Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Moise, B. F., Lim.
Newbery, F., & Sons
Potter & Sacker
Quelch, H. C.
Sanger & Sons | Schutze & Co.
Southall Bros. & Barclay
Tidman & Son | Toogood, W.
Wood, Vincent

DRUGS
Allen, S., & Sons (Grinders)
Beynon & Co.
Bleasdale & Co., Lim.
Davies, Gibbins & Co.
Dieterich, Eugen
Kahler, G., & Co.
Kuhn, B.
Lofthouse & Saltmer
Oppenheimer, Son & Co.
Phillips & Co. [(Grinders)
Poppelreuter, W.
Stevenson, H. E., & Co.

DYES
Ayrton & Saunders
Maypole Soap Co., Lim.

EAU DE COLOGNE
Farina, J. M. | Muhlens, F.
Van Oppen & Co.

ECZEMA
Cullwick's Specialities

EMBROCATIONS
Bow'e Liniment
Day & Sons
Elliman, Sons & Co.
Harvey & Co.
Tuson's Disinfectants Co., Ld.

ENEMAS
British-American Ball Nozzle
Evans, Sons & Co. [Co.
Lynch & Co., Lim.
Sanger & Son | Wood, Vincent

ENGRAVERS
Corsan, J. R.

ESSENCES
Boulton, J., & Co., Lim.
Bovril, Lim. (Beef)
Bratby & Hinchliffe, Llm.
Bush, W. J., & Co.
Delbanco & Co.
Fletcher, Fletcher & Co.
Goodall, Backhouss & Co.
May & Baker, Lim.
Newball & Mason
Stevenson & Howell
To d, A. M.
Ty er, P. (Anchovies)
Woolley, Sons & Co.

ESSENTIAL OILS
Allen, S., & Sons
Blackwell, Hayes & Spilsbury
Boehm, Fredk.
Bush, W. J., & Co.
Delbanco & Co.
Evans, Sons & Co.
Feustell, Friedrich
Frankenstein, S. M., & Co.
Jakson, J., & Co.
Jeancard, Gazan & Doumin
Kahler, G., & Co.
Lewig, Mark, Lim.
Lofthouse & Saltmer
May & Baker, Lim.
Poppelreuter, W.
Ransom, Wm., & Sons
Raynaud, Claude, & Co.
Sanitas Co., Lim.
Stevenson, H. E., & Co.
Stevenson & Howell
Todd, A. M.
Treatt, R. C. | Warrick Bros.
Wright, Layman & Umney

ETHER
Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

EUCALYPTUS OIL
Drysdale, J. W., & Co.
Sanitas Co., Lim.
Tasmanian Eucalyptus Oil Co.

EXTRCTS, FLUID
Allen & Hanburys
Alleu, G., & Co.
Bleasdale & Co., Lim
Burgoyne, Burbidges & Co
Davies, Gibbins & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Wright, Layman & Umney

EXTRACT MEAT
Armour & Co. | Brand & Co.
Liebig Co. | Liquor Carnis Co.

EXTRACTS, SOLID
Allen, G., & Co.
Ransom, W., & Son

FEEDG BOTTLES
Burroughs, Wellcome & Co (Thermo Safe)
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Hovenden & Sons
Kilner Bros.
Lynch & Co., Lim.
Marriott, E., & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Shirley Bros. | Youldon, E.

FILTERS
Berkfield Filter Co., Lim.
Mawson Filter Co.

FLY CATCHERS
Bleasdale, Lim.
Buchan, D. D.
Ford, Shapland & Co.
Marshalls, Lim.
Maw, S., Son & Thompson
Strong, Christy
Tunbridge & Wright

FOOD (Infants'& Invalids')
Allen & Hanburys
Beanes & Co.
Benger's Food
Brand & Co.
Frame Food Co., Lim.
Goodall, Backhouse & Co.
Hawksley, T. (Sterilises)
Horlick & Co.
Kydde & Co.
Lazenby & Son, Lim.
Liquor Carnis Co.
Liebig Co. | Lorimer & Co.
Mellin's Food | Nestlé, H.
Savory & Moore
Tyrer, P.
Vi-Cocoa (Dr. Tibbles)

FUNNELS
Von Poncet Glass Works

GINGER ALE
Bratby & Hinchliffe, Lim.
Chemists' Aerated & Mineral Water Association. Lim.
Ellis & Son | Hay, W., Lim.
Mills, R. M., & Co.

GELATINES
Boehm, F.

GLYCERINE
Blyton, Astley & Co. (Pastilles
Boehm, F. | Fink & Co.
Price's Candle Co., Lim.

GRANULAR PREP.
Bishop, A., & Sons
Boulton, J., & Co.
Davies, Gibbins & Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard & Co.
Lofthouse & Saltmer
Tyrer, T., & Co.
Wright, Layman & Umney

GUM
Fink & Co. (Arabic, &c.)
Graf, F.

HAIR PREP.
Alexandre's Shadeine
Chesebrough Co.
Depilene Co.
Edwards & Co.
Thiellay, E. H.
Truefitt, H. P., Lim.

HERB BEER EXTS.
Newball & Mason
Potter & Clarke

HOMŒOPATHIC
Keene & Ashwell
Leath & Ross
Watson & Wates

HONEY
White, G., & Sons

HYPOPHOSPHTES
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Tyrer, T., & Co.

INHALERS
Burroughs, Wellcome & Co.
Krohne & Sesemann
Lynch & Co., Lim.
Sanitas Co., Lim.

INSECTICIDES
Barclay & Sons, Lim.
Bleasdale, Lim. | Jackson, T
Rudkin's Moth Bricks
Sanitas Co., Lim.
Tunbridge & Wright

JELLOIDS
Warrick Bros.

KETCHUP
Tyrer, P.

LARD
Ewen, J., & Sons

LAVENDR WATR
Jakson, J., & Co.

LEECHES
Fitch & Nottingham

LINT
Burgoyne, Burbidges & Co.
Christy, T., & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons

LIQUORS
Blackwell, Hayes & Spilsbury
Davies, Gibbins & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Oppenheimer, Son & Co., Lim
Stevenson, H. E., & Co.

LIQUORICE
Evans, Sons & Co. (Savarin)
Frankenstein, S. M., & Co.
Hillaby, J.
Lorimer & Co.
"Solazzi"

LOZENGES
Allen & Hanburys
Davies, Gibbins & Co.
Gibson, R., & Sons (Manfrs.)
Guest, T., & Co., Lim.
Hill & Son | Lorimer & Co.
Raimes & Co.
"Solazzi" | Warrick Bros.

LUNGPRESERVRS
Zimmer & Co.

MACHINERY
Bennett, Sons & Shears, Lim.
Gardner, W., & Sons
Mellin, C. | Pindar, J. W.
Volcanic Aeration Co.
Werner, Pfleiderer & Perkins, Lim.

MAGNESIA
Bleasdale, W., & Co.
Davies, Gibbins & Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Lloyd, T. Howard, & Co.
Washington Chemical Co.

MALT EXTRCT, &c
Allen & Hanburys
Anderson & Co.
Blackwell, Hayes & Spilsbury
Burroughs, Wellcome & Co. (Kepler's)
Davies, Gibbins & Co.
Distillers' Co., Lim.
Evans, Gadd & Co.
English Diastasic Malt Extract Co., Lim.
Hearon, Squire & Francis
Lorimer & Co. | Moss, J., & Co.
Oppenheimer, Son & Co., Lim
Parke, Davis & Co.
Raimes & Co.
Raimes, Clark & Co.
Robinson & Co.
Standard Malt Ext. Co., Lim.

MANICURE
Hovenden & Sons

MARKING INKS
Bond (Daughter of the late John (Ink and Pencils)

MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)

MENTHOL
Ayrton & Saunders
Evans, Lescher & Webb
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, P.

MERCURIALS
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jones & Co. | Phillips, G., & Co.
Smith, S., & Co.
Warren, A. & J.

METHYLENE
Robbins, J., & Co.

MICROSCOPES
Darton, F., & Co.
Hicks, J. J.

MILK
Hawkesley, T. (Sterilizs
Horlick & Co.
Nestlé, H. (Condensed)

MORPHIA
Beynon & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

OILS, &c.
Anglo American Drug Co.
Calvert Bros. & Co.
Carless, Capel & Leonard
Hooper, B., & Co. (SandalWood)

OINTMENT BASES, &c.
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Davies, Gibbins & Co.
Lloyd, T. Howard, & Co.
Stevenson, H. E., & Co.

OPTICIANS
Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

OXIDE OF ZINC
Hubbuck, T., & Son, Lim.
Steveuson, H. E., & Co.

PALATINOIDS
Oppenheimer, Son & Co., Lim.

PASTILLES
Jackson, T.

PAT. MEDCNS, &c.
Anglo-American Drug Co., Ld.
Antikamnia Chemical Co.
Atkins' Lung Healer
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Clarke's Blood Mixture
"Daisy" Headache Powders
Edwards & Son
Evans, Lescher & Webb
Evans, Sons & Co.
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
Guy's Tonic
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
May, Roberts & Co.
Newbery, F., & Sons
Richards, J. M.
Roberts & Co.
Wilson, A. (Bunter's Nervine

PENS
Jewel Pen Co.

PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Cerebos Limited (Pepsalia)
Kühn, B. (Papain Finkler)
Newbery, F., & Sons (Ingluvin)
Oppenheimer, Son & Co.
Parke, Davis & Co.
Stevenson, H. E., & Co.

PERFUMERY. FANCY SOAPS
Barclay & Sons, Llm.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F.
Brager, L.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Bush, W. & J., & Co.
Carmichael, M. W.
Chesebrough Co.
Cook, E., & Co.
Corbyn, Stacey & Co.
Crown Perfumery Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Ewen, J., & Sons | Farina, J. M.
Frankenstein, S. M., & Co.
Grossmith, Son & Co.
Guy's Tonic
Hovenden & Sons
Lanoline
Lynch & Co., Lim.
Moise, B. F., Lim.
Mulhens, F.
Newbery, F., & Sons (Berdoes)
Pears, A. & F., Lim.
Price's Patent Candle Co.
Sanitas Co., Lim.
Schutze, F., & Co.
Sharp Bros. Soap & Perfumery Co., Lim.
Sinclair, Jas., & Son
Tidman & Son | Treatt, R. C.
Truffitt, H. P., Lim.
Warrick Bros.
West, T. (Okell's Mona)
Woolley, Sons & Co. (Powdsr)
Wright, Layman & Umney

PEPPERMINT OIL
Bush, W. J., & Co.
Jakson, J., & Co.
Ransom, W., & Son
Stevenson & Howell
Todd, A. M.

PEROX. OF HYDR
May & Baker, Lim.
Robbins & Co.
Sanitas Co., Lim.
Tyrer, T., & o.

PETROLEMJELLY
Allen & Hanburys
Christy, T., & Co.
Dee Oil Co., Lim.
Snowdon, Sons, & Co. (Jelly)

PHARM. PREPS.
Allen & Hanburys
Armour & Co. | Balss Bros.
Barron, Harveys & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Dieterich, Eugen
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Sons
Howards & Sons
Kühn, B.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim
Parke, Davis & Co.
Potter & Clarke
Richards, J. M.
Roberts & Co.
Smith, T. & H., & Co.
Smith, W. F.
Squire & Sons
Stevenson, H. E., & Co
Symes & Co.
Tyrer T., & Co.
White, Alfred, & Sons
Willows, Francis & Butler
Woolley, Sons & Co.
Wyleys Lim.
Zimmermann, A. & M.

PHOTOGRAPHIC
Barclay & Sons, Lim.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcome & Co.
Darton, F., & Co.
Evans, Sons & Co.
Howards & Sons (Chemicals
Lockyer, J. E.
Maxwell, Bayes & Co.
Raphael, J., & Co.
Reynolds & Branson
Sandell Works Co., Lim.
Thornton-Pickard Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Woolley, J., Sons & Co
Zimmermann, A. & M.

PILL MACHINES
Bennett, Sons & Shears
Pindar, J. W.
Toogood, W. (Coater)

PILLS, Coated, &c.
Allen & Hanburys
Anderston Apothecaries
Beecham, Thomas
Bleasdale & Co., Lim.
Box, W. H.
Davies, Gibbins & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Hearon, Squire & Francis
Hill, A. S., & Son | Holloway's
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Scott's, Dr.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyleys, Lim.

PLASTERS
Allcock's
De St. Daimas, A.
Evans, Sons & Co.
Seabury & Johnson
Solport Bros. (Court)

POLISHING
Bradley & Bourdas (Albatum)
Diamond Emery Co.
Fordham, W. B., & Sons, Lim.

PORCELAIN GDS
Toogood (E.c. Pots, regist.)

POULTRY FOOD
Spratt's Patent, Lim.

PRINTING
Bowers Bros. (see also Insect
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Harrison & Walde
Silverlock, H.
Townsend, J.

QUININE SALTS
Boehringer, C. F., & Sohne
Howards & Sons
Imperial Quinine Co.
Smith, S., & Co. (Wine)
Zimmermann A. & M.

RENNET
Duncan, Flockhart & Co.
Lorimer & Co.
Müller & Co.
Tomlinson & Hayward

RUBBER GOODS
Powell & Barstow

SALICIN
Macfarlan & Co.
Smith, T. & H., & Co.

SALICYLIC ACID
Burgoyne, Burbidges & Co.
Zimmermann, A. & M.

SARSAPARILLA
Potter & Clarke

SAUCES, PICKLES
Goodall, Backhouse & Co.
Maw, S., Son & Thompson
Tyrer, P.

SCHOOLS, &c.
Central (Edinburgh)
City School (Skerry's)
Glasgow School of Pharmacy
Liverpool School
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
North of England School
Northern College of Pharmacy
Royal Dispensary (Edinburgh)
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
Westminster College

SCIENTIFIC INSTRUMENTS
Darton Co. | Hicks, J. J.

SEA SALT
Tidman & Son, Lim.

SEEDS
Brook, Parker & Co.
McCausland, S.
Potter & Clarke
Spratt's Patent, Lim. (Bird)

SEIDLITZ PWDRS
Davies, Gibbins & Co.
Hora & Co. | May, Roberts & Co.

SELTZOGENES
Bratby & Hinchliffe, Lim.
May, Roberts & Co.
Volcanic Aeration Co.

SERUM
Greeff, R. W., & Co.

SHAVING
Hovenden & Sons (Euxesis)
Lloyd, A., & Co. (A. S. Lloyd's Enxesis)
Trnefitt, H. P., Lim.

SHEEP DIP
Fletcher Bros & Co.
Haresceugh & Co.
Jeyes' Sanitary Compounds Co.
Kühn, B. (Kresochine
Ness & Co.
Sanitas Co., Lim.

SHOP FITTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co.
Josephs, C., & Co.
Josephs, Philip
Mills, H.
Treble, G., & Son
Yates, W. S.

SOAP
Blondeau et Cie. (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Gibbs, D. & W. (Medicated)
Huggin's Soap Works, Lim
Jameson, W. (Arsenical)
Jeyes' Sanitary Compounds Co.
Mackenzie's, Dr. (Arsenical)
Maypole Soap Co., Lim.
Muhlens, F.
Pears, A. & F., Lim.
Sanitas Co., Lim.
Sharp Bros. Soap, &c., Co., Ld.
Sinclair, J., & Son
Tidman & Son
Wright, Layman & Umney

SPECTACLES
Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co

SPONGES
Cohen, I. & M.
Cresswell Bros. & Schmitz
Peterson, M., & Co.

STAMPS (RUBBER)
Hickisson, J.

STARCH
Critchley (Gloss)
Hebden, W. C.

STEEL BARRELS
Iron and Steel Plant Co., Lim.

STOPPERS
Austin & Co. (Sprinklers)
Barnett & Foster | Melin, C.
Patent Stopper, Box, and Stamping Co., Lim.
Stipendum Stopper Co., Lim.

STOVES
Clark, S., & Co., Lim

SUGAR
Macfie & Sons

SUGAR OF MILK
Boehm, Fredk.

SURGICAL
Accrington Surgical Appliance Co.
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim. [Co.
British-American Ball Nozzle
Burgoyne, Burbidges & Co.
Cocking, J. T.
Eschmann Bros. & Walsh
Ferris & Co.
Haywood, J. H.
Ickringill's Hygienic Cloth Syndicate, Lim.
Krohne & Sesemann
Liverpool Patent Lint Co.
Lynch & Co., Lim.
Macfarlan, J. F., & Co.
Manson, R.
Maw, S., Son & Thompson
Milne, J.
Oppenheimer, Son & Co.
Powell & Barstow
Quelch, H. C.
Robinson & Sons
Sanitas Co., Lim.
Schutze, F., & Co.
Victoria Rubber Co
Wood, Vincent
Woodruff, T.

SYPHONS
Barnett & Foster
Bratby & Hinchliffe, Lim.
British Syphon M,f'g. Co.
Chemists' Aerated and Mineral Waters Association, Lim.
Geraut, E., & Co.
Idris & Co., Lim.
Kilner Bros. | Melin, C.

SYRUPS
Beckett, W., Sons & Co.
Blyton, Astley & Co.
Fletcher, Fletcher & Co. (Liquors)
Stevenson & Howell
Volcanic Aeration Co.

TABLETS
Corsan, J. R. (Advertising)
Davies, Gibbins & Co.

TEA
Pearse & Meeking
Tower Tea, Lim.

THERMOMETERS
Ayrton & Saunders
Bailey, W. H., & Son
Darton, F., & Co.
Hicks, J. J.

TEETHING PADS
Cartwright, A. S.
Marriott, E., & Co.

TOBACCO & CIGRS
Singleton & Cole, Lim.

TINCTURES
Blackwell, Hayes & Spilsbury
Davies, Gibbins & Co.
Evans, Sons & Co.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Parke, Davis & Co.
Sinclair, Phillips & Co.
Wyleys, Lim.

TOILET
Ayrton & Saunders
Beetham & Son
Burroughs, Wellcome & Co.
Dee Oil Co., Lim. [(Lanoline)
Hovenden & Sons
Lynch & Co., Lim.
Maw, S., Son & Thompson
Moise, B. F., Lim.
Peacock's Ovaline Soap Co., Lim.
Pinnacle Soap Stand Co.
Sanitas Co., Lim. [Co., Lim.
Sharp Bros. Soap & Perfumery
Southall Bros. & Barclay
Squire & Sons
Tidman & Son, Lim.
Townsend, J. (Paper)
Truefitt, H. P., Lim.

TOOTH PASTE
Beecham, T.
Jewsbury & Brown
Lutheni & Co.
Maw, S., Son & Thompson
Parke, Davis & Co.
Sutton, O., & Co.
Wilson, A. (Bunter's)
Woods, M. (Areca)

TRADE MARKS
Browne, T. B.

URETHANE
Howards & Sons

VACCINATION
Maw, S., Son & Thompson
Vaccine Association (Lymph)

VALUERS AND TRNSFR AGNTS
Berdoe & Co. | Brett, F. J.
Crocker, G. B., & Co.
Ferguson & Osborne
Orridge & Co.
Tomlinson, Thos., & Son

VASELINE
Chesebrough Co.

VETERINARY
Bird & Storey
Dawes, G. F. | Day & Sons
Day, Son & Hewitt
Elliman, Sons & Co.
Harvey & Co. | Leng, A., & Co
Lloyd, T. Howard, & Co.
Rookledge, F. E.
Sanitas Co., Ld | Spratt's (Dogs)
Walker, Troke & Co.

VINEGAR
Grimble & Co.

VINOLIA Superfatt'd
Blondeau et Cie.

WEED KILLER
Acme Chemical Co., Lim
Fletcher Bros. & Co.
Mark Smith, Ltd.
Sanitas Co., Lim.
Tomlinson & Hayward

WHOLSLE & EXPT DRUGGISTS
Allen & Hanburys
Allen, S., & Son | Balss Bros.
Barron, Harveys & Co.
Bleasdale & Co., Lim.
Brook, Parker & Co. (Botani
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hi
Evans, Gadd & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Ferris & Co. | Graf, F.
Goodall, Backhouse & Co
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Kemp, Wm. & Son
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Potter & Clark
Raimes & Co.
Raimes, Clark & Co.
Smith, B. A., & Co.
Stevenson, H. E., & Co.
Taylor & Colledge
Willows, Francis & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

WINES, SPIRITS, BEER, &c.
Burgoyne, P. B., & Co.
Burroughs, J.
Coleman & Co., Lim.
French Hygienic Socy. (Coca)
Goodall, Backhouse & Co.
Holloway, E. A.
Mead Manufacturing Co. (Vin Kafra)
Millar, A., & Co. (Orange)
Phillips, G., & Co. | Robinson, B
Smith, S., & Co. (Orange)
Stevenson, H. E., & Co
Symons, J., & Co., Lim.
Warren, A. & J.
Whitbread & Co.
Wilcox & Co
Wright, Layman & Umney
Wyleys, Ltd.

BOVRIL

CONTAINS THE ENTIRE NOURISHMENT OF PRIME OX BEEF OBTAINED FROM SELECTED CATTLE REARED IN AUSTRALIA AND SOUTH AMERICA.

BOVRIL is not merely a Meat Extract containing only the stimulative without the nutritive constituents of Beef. With the ever-increasing rush of Life, commercially and socially, there arose a demand for a stimulant without deleterious after-effects; hence the introduction of ordinary Meat Extracts, Meat Essences, &c. But stimulant without nourishment simply stirs up the Fire of Life without providing for its continuance, thereby exhausting the system; the result being precisely the same as if pokers were solely depended on to FEED the household fires.

INVALID BOVRIL

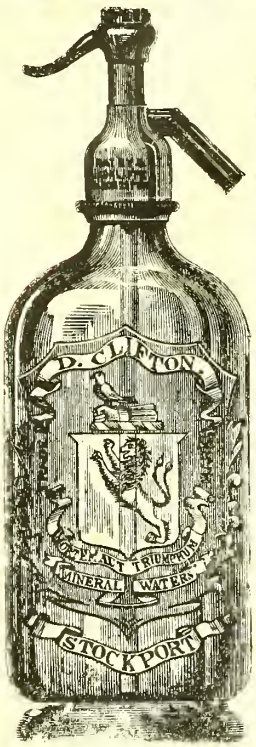
Is specially prepared for use in the Sick Room. It is put up in porcelain jars and sold by chemists and druggists only; and it differs from ordinary Bovril in being more concentrated and quite devoid of seasoning.

It is the most perfect form of concentrated nourishment at present known, and is relished and retained by Invalids when ordinary food and stimulants are rejected.

BOVRIL, LIMITED, Food Specialists, **LONDON.**

Chairman—Right Hon. LORD PLAYFAIR, G.C.B., LL.D.

SYPHONS & SELTZOGENES



Messrs. J. BARBE JOHNSTONE & CO., 20 Loftus St., Sydney, N.W. Agents for New South Wales, Queensland, and New Zealand. Messrs. NOYES BROS., 42 Queen Street, Melbourne, Victoria. Agents for Victoria, South and West Australia, and Tasmania.

SODAWATER MACHINERY AND APPLIANCES
BRATBY & HINCHLIFFE LTD
ANCOATS MANCHESTER & 146 MINORIES LONDON E.C.
81 ROBERTSON STREET, GLASGOW

American Agents.—For New York and East. WM. G. SMITHERS, 11 Duane St., New York. For Chicago and West, VICTOR BAROTHY, 409 Dearborn St., Chicago.

PRICES.

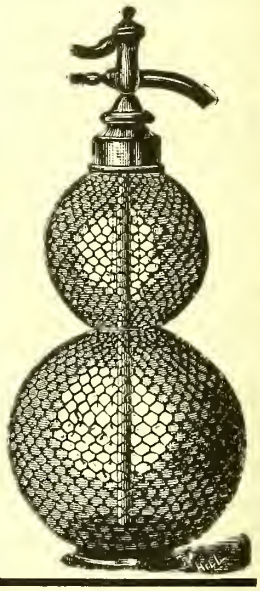
SYPHONS — 1/6, 1/8, and 1/10 each

SELTZOGENES.

1	2	3	4	5	6 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.
The tops of these Seltzogenes are made of pure block tin, guaranteed.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



A. MILLAR & CO., LTD., DUBLIN.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

A COMPLETE APPARATUS, CAPABLE OF PRODUCING OVER

300 DOZ. BOTTLES

of Aerated Water per day, at a minimum of cost, from

£20.

NO DANGER. NO MESS.

SODA-WATER MACHINERY
BOTTLES, SYPHONS, AND ALL APPLIANCES FOR THE TRADE.

Write for ILLUSTRATED CATALOGUE, Post Free upon Application.

BARNETT & FOSTER
NIAGARA WORKS,
26T EAGLE WHARF ROAD, LONDON, N.
9 Gold Medals. 44 Highest Awards.

HOLY- -ROOD
TABLE WATER.

Shown by analysis to be **equal** to the **best imported**, and is **FAR MORE ECONOMICAL.**

Highly Commended by LEADING MEDICAL AUTHORITIES

"It is a well aërated and pleasant Table Water, without a trace of bitterness."—*British Medical Journal.*

J. F. MACFARLAN & CO.
Abbeyhill Chemical Works,
EDINBURGH.

THE MALVERN SELTZER
REAL SODA
BURROW'S MALVERN TABLE WATERS
POTASH, LITHIA
W. J. BURROW THE SPRINGS MALVERN

Special Diplomas Awarded at the Montreal and Ottawa Exhibitions, Sept., 1895.
ICKRINGILL'S
ABDOMINAL, BODY, and other Supporting BELTS, BANDAGES AND SURGICAL ELASTIC APPLIANCES.
Descriptive Pamphlet with Particulars Post Free.
Apply Secretary, E. J. PRYSE, 35 Devonshire St., KEIGHLEY.
Ladies' and Gentlemen's Ordinary Belts from £1 1s.
AGENTS—Messrs. S. MAW, SON & THOMPSON, Surgical Instrument Makers, 7 to 12 Aldersgate Street, LONDON, E.C.; Messrs. REYNOLDS & BRANSON Surgical Instrument Makers, 13 Briggate, LEEDS.

KINMOND'S
ROYAL LEAMINGTON
TABLE WATERS

Were first supplied to H.M. the Queen in 1858, and to H.R.H. the Prince of Wales in 1862.

UNRIVALLED for PURITY and QUALITY.

IN ORDINARY BOTTLES AND SYPHONS.

MANUFACTORY—
LEAMINGTON.
Send for Trade List and Compare Prices.

MAKE YOUR OWN MINERAL WATERS.

See Pages 442 and 443, *Chemist and Druggist* Diary, 1897.
A great many Chemists, Hospitals, &c., are using this simple and most effective Plant, and producing splendid Aërated Waters.
SUPPLIED ONLY BY
THE VOLCANIC AËRATION CO., 203 Great College Street, LONDON, N.W.
J. G. CHAPMAN, Proprietor.

THE CHEMIST & DRUGGIST
AMERICAN, CANADIAN, & WEST INDIAN ISSUE
WILL BE PUBLISHED ON
MAY 22, 1897.

This distribution will be a very important one added to the usual circulation of ***The Chemist and Druggist*** in the United Kingdom, Australasia, and other Countries, and will comprise

ALL THE PRINCIPAL WHOLESALE AND RETAIL DRUG HOUSES IN THE UNITED STATES, CANADA, AND WEST INDIES.

The same language and the same customs make all products which sell in this country likely to sell in America.

Despite all the fiscal hindrances which impede trade between Great Britain and the United States, America still is, and must always remain, the United Kingdom's largest foreign customer.

A British novelty is always looked on with favour in the United States, and there are few druggists' goods for which a demand cannot be created in North America.

The American drug trade read advertisements with care, and every announcement in the above issue will come before all the probable buyers of British drug goods throughout the North American Continent.

The issue of May 22 will be of particular interest, as it will contain Reports of the Annual Meeting of the Pharmaceutical Society, Dinner, &c.

For Terms for Advertisements apply to THE PUBLISHER, 42 CANNON STREET, E.C.

VINACOCA.

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail.

ALSO

COCA LIQUEUR

The best Restorative,
The best Nerve Tonic,
The best Renewer of Health is

ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR, COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, COCA TOBACCO, &c.

SOLE PROPRIETORS OF

THE NEW VAPORISER, "OUR OWN."

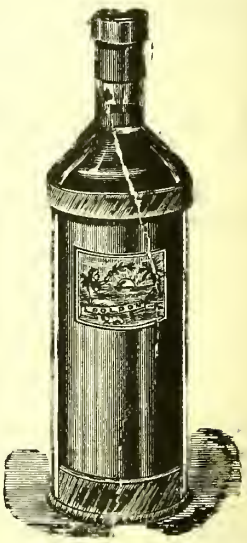
ENGLISH MADE.

Prices from 15s. each; Eau de Lis 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, REGENT STREET. LONDON, W.



EVANS' SALINE.

A medical man often wants to prescribe an Effervescing Saline with Chlorate of Potash, but is unable to do so for want of a Saline with a published percentage of Chlorate. Moreover, by the nature of its manufacture, a chemist is unable to dispense it in a limited time, even if prescribed. The above Saline is now stocked by many chemists, and thus a real difficulty is obviated.

The peculiarity of this Saline is that the Chlorate of Potash, in the proportion of about 2 per cent. (really 1·9), is in a state of minute subdivision, with, at the same time, a slight excess of Tartaric Acid. The latter gives a pleasant sharpness to the effervescing draught, whilst the former seems to have almost a "specific" effect in bilious headache and a feverish system.

Evans, Lescher & Webb, LONDON. Evans, Sons & Co. LIVERPOOL.
EVANS AND SONS (LIM.) MONTREAL. [12]

Re

COLEMAN'S Wincarnis
COLEMAN'S Crown Imperial Invalid Champagne
COLEMAN'S Coca Wine
COLEMAN'S Wincarnis with Quinine
COLEMAN'S Coca Wine with Quinine

The above Medicated Wines, with the exception of Wincarnis with Quinine and Coca Wine with Quinine, cannot be sold without a Foreign Wine Licence.

Under certain conditions Messrs. COLEMAN & CO., Limited, are prepared to Pay for a Foreign Wine Licence.

FOR PARTICULARS APPLY TO

MESSRS. COLEMAN & CO., LTD.
Wincarnis Works, NORWICH.

Hunyadi János

The revised prices of the above (to the Trade) have been fixed by Mr. Andreas Saxlehner, the Proprietor, as under:—

22/6 per case of 25 large bottles, or **12/-** per dozen.
35/- „ of 50 half-bottles, or **10/-** „

SPECIAL TERMS FOR QUANTITIES ON APPLICATION.
CARRIAGE PAID. TERMS.—STRICTLY NET.

INGRAM & ROYLE, LTD.

VICHY Sole Agents for EAST PAUL'S WHARF, 26 UPPER THAMES STREET, E.C. **VICHY**

LIVERPOOL—19 South John Street. BRISTOL—80 Redcliff Street.

Carriage Paid. Price List of all Natural Mineral Waters on Application.

IMITATED BUT NOT EQUALLED!!

MASON'S IS THE ORIGINAL EXTRACT OF HERBS

No other Extract makes Beer like it!!

INVENTORS AND MANUFACTURERS—
NEWBALL & MASON, NOTTINGHAM.
25

POINTS ABOUT

COCA-KOLA WINE

With QUININE.

1. It is not liable to excise duty.
2. It is palatable to the taste.
3. It is effectively labelled.
4. It is a certain and powerful tonic.

5. It is extraordinary value.
6. It is without a rival.
7. It is selling wherever introduced.
8. It is not cut in price.

COCA-KOLA WINE is a combination of the powerful stimulating properties of Coca Leaves and Kola Nuts, with the tonic properties of Quinine.

IT IMPARTS TONE AND VIGOUR TO THE WHOLE BODY.

Put up in really first-class style. Bound to attract attention, command sale, and create trade.

In Apollinaris Pints, 8/- per Dozen.

POTTER & CLARKE, WHOLESALE DRUGGISTS, 60, 62, and 64 Artillery Lane, LONDON.

SPECIAL NEW LINE

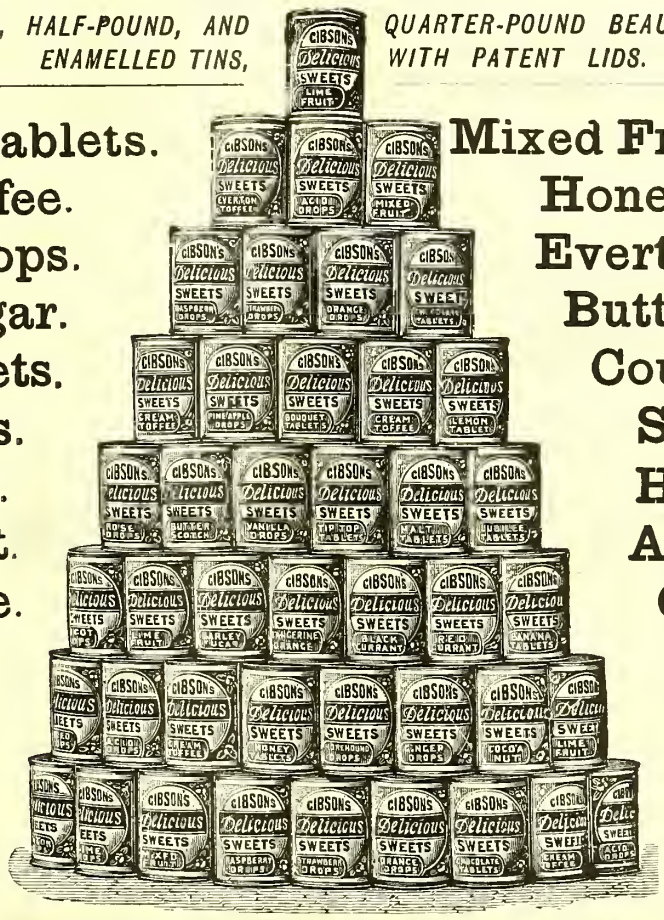
IN

GIBSON'S

CELEBRATED SWEETS.

ONE POUND, HALF-POUND, AND QUARTER-POUND BEAUTIFULLY ENAMELLED TINS, WITH PATENT LIDS.

Bouquet Tablets.
Cream Toffee.
Lemon Drops.
Barley Sugar.
Malt Tablets.
Pear Drops.
Mint Rock.
Lime Fruit.
Pine Apple.
Raspberry.
Damson.
Ginger.
Musk.
&c., &c.



Mixed Fruit Drops.
Honey Tablets.
Everton Toffee.
Butter Scotch.
Cough Drops.
Strawberry.
Horehound.
Acid Drops.
Greengage.
Chocolate.
Orange.
Cherry.
Rose.
&c., &c.

For many years these goods have been shipped abroad only in bottles; now the firm have decided to pack them in 1-lb., ½-lb., and ¼-lb. tins at 7/6, 4/6, and 2/9 per dozen respectively to the Retail trade, with usual discount, special terms being made with Wholesale buyers. Messrs Gibson & Sons believe by offering their **WORLD-RENOWNED BOILED SUGARS** in portable, unbreakable packages, beautifully labelled for Counter show, they will not only enormously increase their own business, but supply a long-felt want to buyers abroad, and remove at once the only obstacle standing in the way of everybody being able to stock these goods without the slightest fear of sustaining any personal loss.

Indents may be filled and sent direct to the Works, MANCHESTER, to the Firm's LONDON WAREHOUSE—

1 GLASSHOUSE YARD, ALDERSGATE STREET,

Or to any LONDON SHIPPERS.

"LIVE, and LET LIVE."

THE FRAME FOOD CO., LTD., desire that all retailers should have a reasonable, living profit on the sale of "**Frame Food" Preparations.** To ensure this they have fixed minimum retail prices, below which they will not permit their goods to be sold. They also give no **graduated discounts** on large orders, but allow their **highest discount** on purchases of **£2** value and upwards, thus placing all retailers upon the same terms.

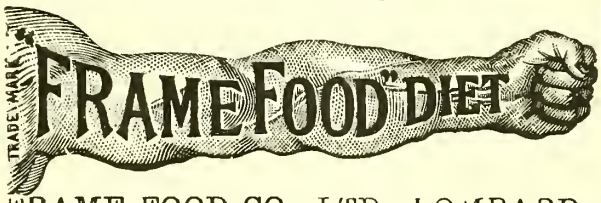
Goods sent carriage **forward.** No Packages charged or to return.

These terms ensure an average **Profit of over 30 per cent.** on goods sold at advertised prices, and of **20 per cent.** at minimum prices.

Write for Trade Terms and Anti-cutting Agreement.

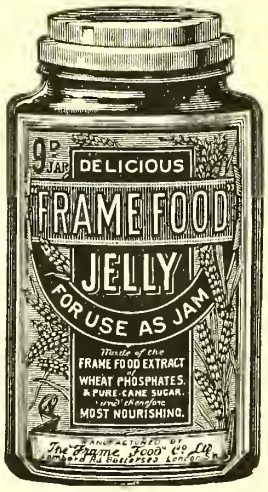
Satisfactory references or cash required for new customers.

An Attractive FRAMED SHOWCARD, and Leaflets with Retailer's printed Address (in red ink), sent Carriage Free on application—(MENTION THIS PAPER). The **Frame Food Co.** trust that retailers will show their appreciation of the Company's efforts to ensure them a reasonable profit on the sale of "Frame Food" Preparations, by exhibiting the Showcards and distributing the Leaflets.



New & Improved Package.

LARGER PROFIT TO RETAILERS.



THE FRAME FOOD CO. have adopted a new air-tight covered Jar for "Frame Food" Jelly, which will ensure its keeping any length of time. In fixing the Retail and Trade Prices of the new package, they have taken the opportunity of securing a larger margin of Profit to Retailers, who will find it to their advantage to recommend the Jelly to their customers.

The 1s. and 7d. sizes are now withdrawn.

"Frame Food" Jelly possesses the nutritive and digestible properties of Malt Extract, and is much cheaper and more palatable.

Advertised Retail Price, 9d.;

Minimum Retail Price, 8½d.

TRADE TERMS ON APPLICATION.

FRAME FOOD CO., LTD., LOMBARD RD., BATTERSEA, LONDON, S.W.

DIASTASED FARINA FOOD

A New and Very Superior Food for Infants, Delicate Children, and Invalids. The great desideratum of a Food for Infants, Delicate Children, and Invalids is easiness of digestion, simplicity of preparation, and power of restoring strength; for these purposes it is superior to any other Food.

RETAIL PRICE 1/6 PER TIN.

A totally unsolicited Report of a Medical Man's experience with the Diastased Farina Food.

YORKSHIRE, December 2 1893.

DEAR SIRS,—Since August I have been trying your "Food," and I am well satisfied with the result. Milk is the most perfect food, but when you have to reckon with a low type of stomach, or a poor class of milk, assimilation is imperfect, dyspepsia frequent. The addition of your "Food" prevents the latter and hurries the former. I have had admirable results in the treatment of Phthisis, Chlorosis, Gastric Ulcer, Atonic Dyspepsia, and Neurasthenia.

Manufacturers: — E. BEANES & CO., Hackney Wick, LONDON, E.

FOR INFANTS AND INVALIDS.

KYDDE'S FOOD

IS UNEQUALLED.

KYDDE & CO.

10 SOUTHWARK BRIDGE ROAD, LONDON, S.E.

SELTZOGENE CHARGES

("MINERAL" BRAND).

A NEW DEPARTURE.

TARTARIC ACID SUPERSEDED

(See this Journal, 19/12/96, page 887).

British Materials. Inorganic. No Field for Germ Growths.

BETTER. STRONGER. CHEAPER.

THE SELTZOGENE PATENT CHARGES CO.

ST. HELENS.

DR TIBBLES' VI-COCOA

THE WHOLESALE PRICE.

RETAIL PRICE.	PER DOZEN.
6d. Packets (Two Dozen in a box)	5/-
9d. Tins (Two Dozen in a box)	7/6
1/6 Tins (One Dozen in a box)	15/-

DISCOUNTS.

5 per cent. Discount on Orders up to £5.
7½ per cent. Discount on Orders for £5 and upwards.
Terms—Cash within 7 days.
Carriage Paid on Orders value £2 and upwards.

N.B.—The above Discounts are from 3¾ to 6¼ per cent. better than can be obtained from any other source, whilst the merits of **DR. TIBBLES' VI-COCOA** are far greater than any other similar preparation in the world.

LIMIT OF CUTTING.

The Proprietors hereby give notice to the Trade that the limit of "cutting" prices of **DR. TIBBLES' VI-COCOA** has been fixed as under:—

6d. Packets	to be sold	at	not less	than	5½d.
9d. Tins	,,	,,	not less	,,	8½d.
1/6 Tins	,,	,,	not less	,,	1/4½

Full Prices to be obtained wherever possible.

FURTHERMORE,

Any Chemist, Grocer, or Stores cutting below these prices will be refused supplies direct from ourselves. And in this connection it is important to note that in £5 lots and upwards no trader in the kingdom, "Wholesale or Retail," can obtain more than the 7½ per cent. discount we offer.

Furthermore, as we pay carriage on orders value £2 and upwards, it will **not be possible to obtain the advantage of this concession, nor that of the exceptional discounts we offer, unless our ruling as to the "cutting" of price is complied with.**

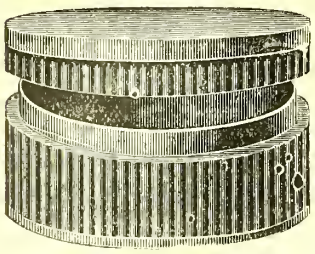
Read the foregoing, send your order to

DR TIBBLES' VI-COCOA Ltd.,

SUFFOLK HOUSE, CANNON ST., LONDON, E.C.

And obtain your fair share of the profits that are daily being made by our customers everywhere.

THE "STIPENDUM" STOPPER CO., LIM.



47 LAMB'S CONDUIT ST., LONDON, W.C.

MANUFACTURE THE FOLLOWING SPECIALITIES—

"STIPENDUM" CORK STOPPERS, in all sizes.
"STIPENDUM" CORK-LINED CAPS, for Pomade Bottles.
"STIPENDUM" OPENERS, for Stoppered Aerated-water Bottles

"STIPENDUM" GREASE-PROOF COVERED POTS.

IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable, and the only articles really answering the purpose intended.

To be had of all Druggists' Sundriesmen. Wholesale only of the Company.

"SOLAZZI" LIQUORICE JUICE

THE CHEMISTS' BRAND.

THE TESTIMONY OF "THE LANCET."

The following is from "THE LANCET" of March 30, 1895.

"The above brand has long been known to be of standard purity. We found the specimen to be completely soluble in water and entirely free from impurities of any kind. It is, therefore, well adapted for the pharmaceutical purpose for which it is so useful, while as a popular demulcent it is both safe and reliable."

Recommended also by "*The British Medical Journal*," "*Health*," "*The Chemist and Druggist*," "*Food and Sanitation*"

ASK FOR SHOWCARDS AND HANDBILLS.

GUEST & CO.

CITY WORKS, CARRUTHERS STREET, MANCHESTER.

MAKERS OF MEDICATED LOZENGES AND JUJUBES.

B.P., T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all other Effervescing Preparations. Boiled Sugars, Floral Tablets.

SEND FOR LIST, SAMPLES, AND COMPARE.

TELEPHONE 235. TELEGRAMS "GUESTO."

Profitable Extras for Chemists.

TOBACCO, CIGARS, CIGARETTES.

AND TOBACCONISTS' FANCY GOODS.

All Packet Tobaccos, Cigarettes, and other Tobacconists' Proprietary goods supplied at Manufacturers' own List Prices. Every Smoker's Requisite and all Novelties—Up to Date—in one order.

MINIMUM OF TROUBLE—MAXIMUM OF PROFIT.

SEND FOR ILLUSTRATED PRICE LIST (200 PAGES), POST FREE.

SINGLETON & COLE, BIRMINGHAM.

PETER TYRER'S (1d.) LINES

CHEMISTS SAVE TIME AND MONEY

By selling my "Plain Label" * Lines. Should remit prices quoted for sample ½-gross lots. If not satisfactory, I will pay carriage back, and return cash

*** PENNY PETROLEUM JELLY** Per gross
In ½-gross tin boxes .. .. 5/-; double size, 7/6

PENNY CEMENT *(largest and best)*
On ½-gross cards 5/3

*** PENNY SEIDLITZ POWDERS**
½-gross glass-top boxes .. .. at 5/6

PENNY LIQUID GLUE
On ½-gross cards .. .. at 5/3

*** PENNY GUMS**
In 1-dozen parcels .. .. at 6/3

*** PENNY GLYCERINE**
½-gross glass-front boxes .. .. at 6/-

*** PENNY CASTOR OIL**
½-gross glass-front boxes .. .. at 5/6

*** PENNY BLACK INK**
In 1-dozen parcels .. .. at 4/3

*** GOLDEN PETROLEUM JELLY** Per doz.
4-oz. glass, metal screw cap 3/-
8-oz. " " 5/-
This is warranted pure, and is a thoroughly good line.

*** PENNY HAIR OIL** Per gross
In 1-dozen parcels .. .. at 5/9

PENNY FURNITURE CREAM
In 1-dozen parcels .. .. at 6/9

PENNY INSECT POWDER Per gross
In perforated tins .. .. at 4/6

*** PENNY** *(Tasteless)* **PILLS**
6 in a box, ½-gross cards 4/6
4 Pills in a box, ½-gross cards 3/6

*** PENNY SOOTHERS**
Black Teats, fitted complete with Shield, Union, and Cord, on ½-gross cards at 7/-; this is a good line, and sells freely.

*** PENNY TOOTH TINCT.**
With Wool complete, ½-gross cards 5/6

*** PENNY CORN SOLVENT**
On ½-gross cards 6/6

PENNY CAMPHOR SQUARES
½-gross boxes 7/-

*** FULLER'S EARTH POWDER**
1*d.* Boxes, in ½-gross glass-top boxes 3/6

*** VIOLET POWDER**
1*d.* Boxes, in ½-gross glass-top boxes 4/-

*** GOLD-BEATER'S SKIN**
1*d.* Packets, on ½-gross cards 3/6

*** COURT PLASTER**
1*d.* Packets, on ½-gross cards (Black, White, or Pink) 4/

*** TOOTH ENAMEL**
(Gutta Percha Enamel for Stopping Decayed Teeth.)
1*d.* Packets, on ½-gross cards 4/-

For sums under £1 please remit Postal Order, not Cheque, and oblige,

PETER TYRER, 30 Southall Place, Long Lane, LONDON, S.E.

Secure this Agency! Look at the terms!

HOLLOWAY'S

Sale or Return.

33⅓ % discount.

COCA WINE

Guaranteed made from the Leaf.

Carriage Paid.

Cases Free.

THE BEST. Write for Particulars,

E. A. HOLLOWAY, A.P.S., TORQUAY.

N.B.—We guarantee to create demand at once.

SPECIAL CHEMISTS' SUGAR

MACFIE & SONS'

PURE GRANULATED,
ENTIRELY FREE FROM COLOURING MATTER.

For making Syrups and other Pharmaceutical purposes.

GUARANTEED PURE CANE SUGAR.

MANUFACTURED ONLY BY

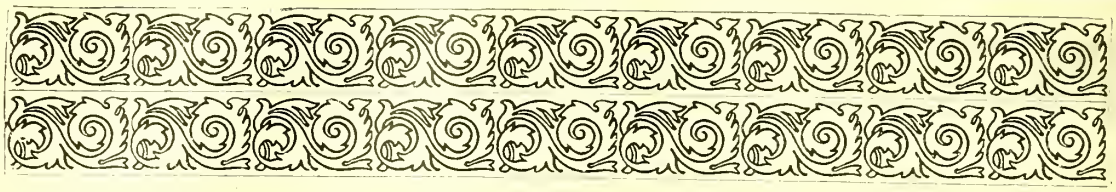
MACFIE & SONS

Sugar Refiners,

LIVERPOOL.

Samples and Quotations from EVANS, SONS & CO., 56 Hanover Street, LIVERPOOL, on application.

SOLE WHOLESALE AGENTS FOR CHEMISTS & DRUGGISTS—
EVANS, SONS & CO., 56 Hanover St., LIVERPOOL.
EVANS, LESCHER & WEBB, 60 Bartholomew Close, LONDON, E.C.
EVANS & SONS (LIMITED), MONTREAL.



'Lanoline' Preparations.

Toilet 'Lanoline'

Is prepared from the purified fat of lamb's wool, which is similar to the natural fat of the human skin and therefore forms an effective, soothing and protective application for roughness, sunburn, chaps, cuts, burns, eruptions, and all forms of sensitive skin. Toilet 'Lanoline' is supplied in large and small collapsible tubes at 4s. 6d. and 9s. per dozen.

'Lanoline' Toilet Soap

Is a perfectly neutral soap superfatted with 'Lanoline.' It is admirably suited for ladies' and children's use. 'Lanoline' Toilet Soap is now issued in one size only, to retail at 6d., put up in boxes containing three tablets. The tablets are more elegant in appearance and larger than hitherto. 'Lanoline' Toilet Soap is supplied at 4s 6d. per doz. tablets.

Burroughs Wellcome & Co., Snow Hill Buildings, LONDON.
Australasian Address :—108, Pitt Street, SYDNEY, N.S.W. *Cable and Telegraphic Address :—"BURCOME, LONDON."*

Pharmaceutical Products and Modern Methods.

"SAXIN."

"Saxin" has been aptly termed "the sweetest thing on earth," being about 600 times sweeter than sugar. It is perfectly harmless, as it undergoes no change in its passage through the digestive system, but simply imparts its delicate sweet flavour to the food or fluid with which it is used. For these reasons it is indicated in such conditions of disease as diabetes mellitus, gout, obesity, glycosuria, &c., in which the patient is debarred from taking sugar and yet retains an intense desire for the sweet flavour to which the palate has, by long use, become accustomed.

"Saxin" has important qualities which render it superior to other sweetening substances. It is unfermentable and permanent. It acts antiseptically and prevents decomposition. In flavour it is more delicate than any other sweetening agent, and in the shape of the "Saxin Tabloid" it provides the maximum amount of sweetening power in the smallest possible space. A small bottle, containing 100 or 200, can be carried in the vest pocket without the slightest inconvenience, and thus the patient who must avoid sugar can have a delicately flavoured, harmless, sweetening agent always handy when at business or when travelling at home or abroad.

Each $\frac{1}{4}$ gr. "Saxin Tabloid" is equivalent to one lump of best loaf sugar. In bottles of 100 and 200, at 7*s.* and 12*s.* 6*d.* per dozen bottles.

"EMOL-KELEET."

"Emol-Keleet" is a natural mineral powder, carefully purified, but unsophisticated in any way. It has been largely used by physicians as a dusting powder in the treatment of cutaneous diseases and for allaying irritation such as occurs in urticaria, the eruptive period of measles, &c. In moist or weeping conditions of the epidermis also "Emol-Keleet" has been used with most beneficial effects, and has further attracted attention, owing to its wonderful softening influence upon the horny accretions of keratosis and other hardened conditions of the skin.

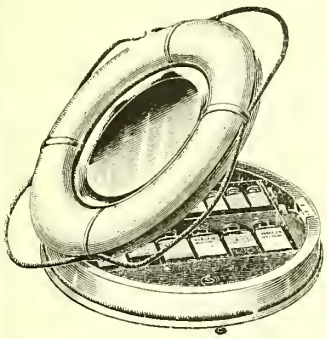
A recent report in the *British Medical Journal* (March 12, 1897), by the Lecturer on Pharmacology at Westminster Hospital, points out the dangerous adulteration that is carried on in the case of many toilet powders, such substances as Zinc, Bismuth, and Lead being present in some samples to the extent of 40 per cent.

The effect of such powders on the delicate skins of infants may be readily recognised, and it is suggested that their use is guarded against in the nursery.

"Emol-Keleet" is supplied to the trade in boxes at 8*s.* 6*d.* per dozen.

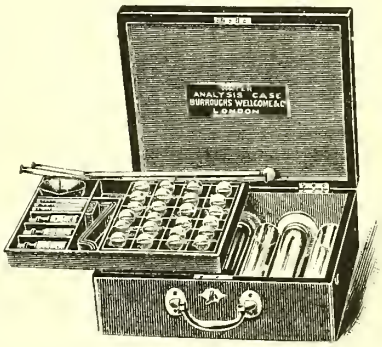
THE B., W. & CO. LIFEBUOY "TABLOID" MEDICINE CASE FOR YACHTS.

This case is another of those which give the pharmacist an opportunity of supplying a complete outfit of drugs, &c., in conformity with the recommendations of the customer's medical adviser. The B., W. & Co. Lifebuoy "Tabloid" Medicine Case is primarily intended to hang on the wall of the cabin, and is fitted complete with compressed drugs in "Tabloid" form and minor surgical dressings sufficient for the necessities of a considerable voyage. It is made in the shape of a lifebuoy, centred with a bevelled-glass mirror. The price, fitted complete, is 84*s.* A full list of other "Tabloid" medicine cases suitable for tourists, cyclists, volunteers, &c., will be supplied on application.



THE B., W. & CO. WATER-ANALYSIS CASE.

Hitherto a profitable amount of business has been lost to the chemist owing to his not having the time or the convenience for undertaking the analysis of samples of drinking water. The B., W. & Co. Water-Analysis Case, designed in accordance with instructions in "A Simple Method of Water Analysis," by Dr. J. C. Thresh, Medical Officer of Health, provides a complete outfit, whilst the simplicity of the "soloid" method makes the analysis of drinking water a practical and profitable possibility.



The chemical tests are carried out by means of the "soloid" method. Each "soloid" represents a measure of standardised solution. Included are—

"Soloid" of Silver Nitrate; Potassium Chromate; Acid Sulphate of Sodium; Potassium Iodide and Starch; Zinc Dust; Soap; Potassium Ferrocyanide; Potassium Permanganate. Nessler's solution is used in glass capsules, each sufficient for 100 c.c. of water.

The cabinet is made of polished mahogany, and contains, besides chemical agents, the following apparatus:—

Three cylindrical test-glasses, holding 100 c.c. and graduated at 70 c.c.; 100 c.c. graduated cylinder; a spirit lamp; 120 c.c. glass-stoppered bottle; funnel; tripod, with detachable legs for close packing; nickel evaporating-dish; stirrers; filter-papers; special report forms, &c. The B., W. & Co. Water-Analysis Case is supplied fitted complete at £2 2*s.* Dr. Thresh's book at 2*s.* net.

BURROUGHS, WELLCOME & Co.

Vinolia

A Plastic Emollient Cream for ITCHING, FACE SPOTS, ECZEMA.

Retail Price, 1/1½, 1/9, 3/6, and 6/-. Trade Price, 10/8, 16/9, 33/4, and 57/8 per dozen boxes (less usual discounts).

BLONDEAU ET CIE., MALDEN CRESCENT, LONDON, N.W.

CONCENTRATED LIQUORS ("HERON")
For the immediate production of
TINCTURES, INFUSIONS, DECOCTIONS, SYRUPS, &c.

GRANULAR EFFERVESCENT SALTS.

PILL CONSISTENCE AND IN POWDER. EXTRACTS LIQUID, B.P., B.P.C., U.S.P.

COCA WINE
("NON-EXCISABLE"),
IN PINT and HALF-PINT BOTTLES.

LINCTUS ROSÆ,
A Cough Specific for Children.

LINCTUS TUSSI RUB.,
A similar preparation to the above, for Adults.

HEARON, SQUIRE & FRANCIS
Wholesale and Export Druggists, Analytical and Manufacturing Chemists,
38 SOUTHWARK STREET, S.E.

INFANTS' FOOD MALTED,
In bulk or in tins with plain labels.

EMULSION OF COD LIVER OIL WITH THE HYPOPHOSPHITES.

Emulsion of Petroleum WITH THE HYPOPHOSPHITES.

COMPOUND SYRUP OF FIGS,
A pleasant and certain laxative for children and delicate persons.

NEUTRAL AND BRIGHT. SYR. HYPOPHOS. CO. NEUTRAL AND CLOUDY.

SEMI-SOLID EXTRACT of MALT LIQUID
WITH COD LIVER OIL OR THE HYPOPHOSPHITES.

QUOTATIONS FOR RECIPES. ROLLED PILLS PEARL, GELATINE, OR UNCOATED.

IRISH SUPPLEMENT TO THE CHEMIST AND DRUGGIST

No. 5. SATURDAY, MAY 1, 1897.

News of the Month.

The Drug-contract System has wakened up considerably consequence of our recent exposure, and we mean to keep it. Following are some of the things which have happened ring the month.

Tinctures not up to B.P. strength were reported by a ublin Castle L.G.B. inspector to have been supplied to allykelly, Bellarena, Dungiven, Feeny, and Limavady. An quiry has been ordered.

The Mountmellick Contract for drugs caused a lively dis-ssion when it came before the Guardians. Messrs. Leslie Co., Dublin, and Dimond & Co., Maryborough, were the nderers. Mr. Meehan, a member, pointed out that the sual way of reckoning which was the cheaper was absurd this case, because in one tender many things were quoted extremely low figures and others at ordinary or above verage prices. He advised the Board to get the medical fficer to tell them which medicines were most used, then hey would see what the two firms quoted these at and ould decide accordingly. The Chairman said that totting p the columns and taking the lowest tender was a system hat had worked well for the last forty-five years, and why hould they seek to change it? If the medicines were nferior it was the doctor's duty to have them analysed, and he contractor would be bound to supply the genuine article f the sample proved inferior. Mr. Meehan pressed his pro-osal to a division, and was defeated.

By the way, Messrs. Leslie & Co. have since been asked why they did not supply 2 pints of spirit of wine to the rder of the dispensary officer to the Union. They replied hat if they had sent less than 2 gallons of the spirit they would have rendered themselves and the Guardians liable to a fine of 50*l.* or 100*l.* That pleased the Board.

The Mitchelstown Guardians had to consider their drug-contracts the other day, when it was mentioned that one of the cheaper competitors offered cod-liver oil at 1*s.* per gallon and castor oil at 3*d.* per quart, but the Guardians and the doctors all seemed to understand the trick, and it was resolved to place the contract again with the Cork Chemical and Drug Company.

The Guardians of the Lismore Union have passed a resolution requiring the drug and medicine contractor to sign an agreement to supply at wholesale price any articles required outside the contract-list, the price to be determined by the price-list of Messrs. Richardson, of Leicester. A discussion took place as to whether the contract should be given to Messrs. Leslie & Co., Dublin (the lowest), or to Dr. Holland, the Medical Hall, Dungarven (the next lowest), the difference being only 1*l.* 10*s.* Dr. Holland was the local man. The tender of Messrs. Leslie & Co. was accepted.

The Local Woman wins where the local man fails, seemingly. The Mullingar Union had tenders from the Apothecaries' Hall, Dublin; Messrs. P. White, Sligo; Boileau & Boyd, Dublin; J. Clarke & Co., Belfast; Thacker & Hoffe, Dublin; Boyers, Sligo; Mrs. English, Mullingar; and the Cork Chemical and Drug Company, Cork. The committee reported on the prices of fifty selected articles, and Messrs. White's tender was the lowest. It was proposed that Mrs. English's tender be accepted. She was fourth on the list, and a large ratepayer. An amendment was moved that the contract be given to Mr. White, as his was the lowest tender. Mr. Levinge, who moved the amendment, said if Mr. White tendered for some articles at below their cost they had no reason to doubt his honesty. He might get it on something else. Of course it was a bit of dodgery, but so long as he sent the proper article to the Guardians it was nothing what he gave for it. Mrs. English got the contract by nine, to three for Mr. White.

* * * *

Elementary Theoretical Chemistry will be a compulsory subject in the Pharmaceutical Preliminary examination on and after January, 1898, if approved by the Privy Council.

* * * *

Educational and Scientific Meetings are to be made a feature of the Pharmaceutical Society's work. The Pharmaceutical Council have asked their School Committee to arrange for such meetings "to be held at intervals." Until the committee reports we can say nothing definite about the nature of the meetings.

It was Mr. Downes who moved in the matter dealt with in the foregoing paragraph. The fact may be worth recalling for the benefit of the younger members of the Society that in the early days of the Society similar meetings were held. They were not too successful; nevertheless, when one looks back upon the reports of these meetings, which were regularly printed in THE CHEMIST AND DRUGGIST, they are found to be of distinct value. As a proof of that we may state that one of the few reliable analyses of Singleton's golden eye-ointment was communicated to the Society twenty years ago by Mr. Downes.

* * * *

The Pharmaceutical Council have resolved to make an appeal to the trade in Ireland for better support to the Society, and a circular will shortly be issued to all eligible for election as associates and members. In this connection we may state that all the adherents of the Society receive THE CHEMIST AND DRUGGIST weekly, THE IRISH SUPPLEMENT monthly, and THE CHEMISTS' AND DRUGGISTS' DIARY yearly, all free of charge, as they are included in the annual subscription to the Society.

* * * *

The Energetic Manner in which the Pharmaceutical Council have carried out the provisions of the Irish Pharmacy Acts has been admired on the English side of the Channel

where the Pharmacy Acts remained a dead letter for many years in respect to certain things. The Dublin Council do not seem to leave any stone unturned in order to get the best possible out of their Acts; so in March a deputation, consisting of the President, Vice-President, and Mr. Grindley, called upon the Inspector-General of the Royal Irish Constabulary to ask him if the police could not assist the Society more in carrying out the provisions of the Acts. The Inspector-General gave the deputation a cordial reception, and, after Mr. Wells and his colleagues had explained their position, he replied that if in future the Council would lay the facts of particular cases before him personally he would take care that the police carried out the Poisons Act, but he did not see his way to initiating actions under the Pharmacy Acts. He was, however, altogether in favour of assisting the Council in every way that was within the sphere of duty of the police.

* * * *

A Loyal Address is to be presented by the Pharmaceutical Council to the Queen on the occasion of her Diamond Jubilee. This was agreed to unanimously at the last meeting. In THE CHEMIST AND DRUGGIST of April 24, an "Irish Country Chemist," after remarking upon what her Majesty has not done for Ireland, and how the country has been impoverished during her reign, says:—"The Irish Pharmaceutical Council would be better employed in protecting its licentiates than in writing congratulatory addresses to a figurehead on the English throne."

Whatever Opinions may be in respect to such things, the fact is worth recalling that on the occasion of the 1887 Jubilee the Pharmaceutical Society of Great Britain presented the Queen with an address and gave forty-eight 5*l.* notes to annuitants and other poor people connected with pharmacy "for their full enjoyment of the Jubilee."

* * * *

The Sensation of the Month has undoubtedly been the incorporation of Messrs. Hayes, Conyngham & Robinson's businesses as a limited company, with a capital of 30,000*l.*, in 5*l.* shares, and 30,000*l.* 5-per-cent. mortgage debenture stock. Although this amalgamation has been known to a favoured few for some time, the promoters kept their own counsel very well, and launched the concern at so opportune a time that the debenture stock (which alone was offered to the public) has been subscribed for three times over. We have some remarks on the new company in type, and a number of pictures illustrating the shops acquired, but, owing to a technical difficulty in printing this month, we are compelled to hold these over.

Pharmaceutical Society of Ireland.

PRELIMINARY EXAMINATION.

AT the examination held on April 5 the following questions were given:—

LATIN.

1. Translate *one* of the following passages:—

I.

Antenor potuit mediis elapsus Achivis
Illyricos penetrare sinus atque intima tutus
Regna Liburnorum et fontem superare Timavi,
Unde per ora novem vasto cum murmure montis
It mare proruptum et pelago premit arva sonanti.
Hic tamen ille urbem Patavi sedesque locavit
Teucrorum, et genti nomen dedit armaque fixit
Troia, nunc placida compostus pace quiescit:
Nos, tua progenies, caeli quibus adnuis arcem
Navibus, infandum, amissis, unius ob iram
Prodimur atque Italis longe disiungimur oris.
Hic pietatis honos? sic nos in sceptra reponis?

II.

Eo postquam Caesar pervenit, obsides, arma, servos, qui ad eos perfugissent, poposcit. Dum ea conquiruntur et conferuntur, nocte intermissa, circiter hominum millia VI eius pagi, qui Urbigenus appellatur, sive timore perterriti, ne armis traditis supplicio afficerentur, sive spe salutis inducti, quod in tanta multitudine dedititiorum suam fugam aut occultari, aut omnino gnorari posse existimarent, prima nocte ex castris Helvetiorum egressi, ad Rhenum finesque Germanorum contenderunt.

2. Decline together:—melior puer, gravius onus, vir fortis acre bellum.

3. Give all the third persons (*a*) singular and (*b*) plural the indicative and conjunctive of each of the following verbs, with the English:—Do, vulnero, venio, claudo, terreo, frango.

ENGLISH GRAMMAR.

1. What is meant by the terms *Prepositional phrase* and *Inseparable preposition*, respectively? Give examples of each.

2. What are indefinite pronouns? Name them. Are they really pronouns?

3. Parse the following sentences:—

(*a*) "Smooth waters run deep."
(*b*) "A straw best shows how the wind blows."
(*c*) "Strike the iron while it is hot."

4. Give the names and use of all the symbols used for punctuation in English.

5. Define the following words:—

Predicate, Mood, Ellipsis, Case, Inflexion, Derivation.

COMPOSITION.

Write a short essay on *one* of the following subjects:—

(*a*) Arctic Exploration;
(*b*) Recent advances in Photography;
(*c*) A sketch of the life of any great philanthropist.

ARITHMETIC—WEIGHTS AND MEASURES.

1. Find the value of 156 cwt. 3 qrs. 18 lbs. at 2*l.* 16*s.* 4*d.* per cwt.

2. Add together 2·1325*l.* and 13·3125 of 13*s.* 4*d.* Express the answer in pounds, shillings, and pence.

3. If $7\frac{1}{2}$ shares in a mine are worth 1,899*l.* 10*s.*, what is the value of $2\frac{1}{3}$ of $5\frac{1}{2}$ shares?

4. Subtract 156·25 grammes from a kilogramme, and express the result in English avoirdupois weight.

5. How many inches are there in a kilometre, and how many centimetres in an English mile?

6. Reduce 2476321 sq. inches to acres, roods, poles, &c.

EUCLID.

[*Not more than* two *of the following propositions to be attempted.*]

1. On the same base, and on the same side of it, there cannot be two triangles having their sides which are terminated at the extremity of the base equal to one another, and likewise those which are terminated at the other extremity, equal to one another.

2. The greater side of every triangle has the greater angle opposite it.

3. The opposite sides and angles of a parallelogram are equal to one another, and the diameter bisects the parallelogram—that is, divides it into two equal parts.

ALGEBRA.

1. Find the G.C.M. of

$$18a^3 - 18a^2x + 6ax^2 - 6x^3 \text{ and } 60a^2 - 75ax + 15x^2.$$

2. Divide

$$6x^4 + 17x^3y + 26x^2y^2 + 19xy^3 + 4y^4 \text{ by } 3x^2 + 4xy + y^2.$$

3. Add together

$$\frac{1}{x+1}, \frac{3}{4x+4}, \text{ and } \frac{x}{x^2-1}.$$

4. Simplify

$$2 - \frac{1}{1 + \frac{1}{a}}.$$

5. Solve

$$\frac{6x+7}{13} + \frac{2x+5}{7} = 3 - \frac{8x+1}{9}.$$

CHEMISTRY.

1. How is carbon monoxide prepared? How would you distinguish between it and carbon dioxide?

2. What is the action of sulphuric acid on each of the following substances:—

(*a*) common salt;
(*b*) ferrous sulphide;
(*c*) zinc;
(*d*) copper?

3. D ribe an experiment by means of which the composition wat may be demonstrated.
4. H is ammonia gas prepared? Mention its most charac-istic roperties.
5. D ribe briefly the manufacture of sulphuric acid.

LICENCE EXAMINATION.

The ollowing were the questions given at the April am tion:—

MATERIA MEDICA.

1. *I acuanha.* State its botanical source, *N. O.*, and prepara-ns. Describe the root, and state in which part the active nci resides.
2. C e the respective characteristics of *bitter* and *sweet mor*, and explain fully the production of the volatile oil.
3. S te the source of *cocaine* and mention another substance th ch it is associated in the leaf.
4. C e the B.P. representatives of the N.O. *Cucurbitaceæ.* te actly the parts of the plants used, and give their prepara-ns.

BOTANY.

5. ite a complete botanical description of any plant you ow Give the name of the plant described.
6. cribe by what means and from what sources plants derive heir d.
7. te the chief characteristics of the N.O. *Solanaceæ.* Give he B representatives and their preparations.

PRACTICAL PHARMACY.

1. w is balsam of tolu obtained? Mention its characters nd te exactly how each preparation into which it enters is mad nd give dose.
2. te accurately how the following are prepared, and mention the p parations they enter into:—

Light magnesia.
Heavy magnesia
Light carbonate of magnesia.
Heavy carbonate of magnesia.

3. umerate the liquid preparations of morphine, and state exac how each is made, giving dose.
4. rite the directions for preparing—

Ung. canthar.
Ung. cetac.
Ung. elemi.
Ung. sabinæ.

5. ate under what conditions the following are sold to the pub:—

Tincture of aconite.
Liquor hydrarg. perchlor.
Chloral hydrate.

GENERAL AND PHARMACEUTICAL CHEMISTRY.

(Time—Two hours and a half.)

(*N.B.—Candidates are required to attempt Question* 3.)

1. ve definitions of the following properties of bodies:—

M , weight, density, specific gravity, heat, temperature, specific hea

2. hat is understood by the term "atomic weight"? And how e the atomic weights determined?
3. en grammes of calcium carbonate is acted on by an excess of h rochloric acid. What volume of carbon dioxide will be prod ed?

G an equation for the reaction, and explain how this volume of g will be affected by quadrupling its pressure and increasing its t perature by 10° C.

4. xplain, by means of equations—

(*a*) the formation,
(*b*) the chief reactions,

of t principal compounds of iron and mercury in the Pharma-copœa.

5. jar full of an elementary gas is handed to you for identi-fica n. Describe fully the experiments you would make for this pur se.
6. hat is the province of organic chemistry? And what are its ief subdivisions? Mention any difference that you are acq inted with between organic and inorganic analysis; and stat what you understand by a proximate principle.
7. ive several examples of the following classes of com-pou s;—alcohols, ethers, esters; explaining clearly in each case to at inorganic classes they correspond.
8. Explain the reactions taking place in the phenyl iso-nitrile test for acetanilidum.

[Ca = 40; C = 12; O = 16.]

PRACTICAL CHEMISTRY.

(Time—One hour and a half.)

Box A.—Salt. Box B.—Acid. Box. C.—Detect alkaloid. Bottle D.—Solution of. Estimate grains per ounce.

SUCCESSFUL CANDIDATES.

PRELIMINARY EXAMINATION.

TWENTY-TWO candidates were examined, nine failed, and the following thirteen passed:—

Brennan, Michael Francis, Ballyharmon, Carlow
Doran, Jas. Bowler, Belfast
Hunter, Jas., jun., Kilrea
Keers, Chas. Gordon, Strabane
Lowe, Robt. Robt., Thurles
Mason, Fras. John B., Dingle
McKay, T., Ashfield, Cootehill
Owgan, Henry Jermyn, Ranelagh, co. Dublin
Robinson, Geo. E., Limerick
Rutherford, Thos. Geo., Ballysillan, Belfast
Walsh, Joseph, Ballyhahill, Shanagolden, co. Limerick
Walsh, Joseph A., Waterford
Yoxall, Alfred N., Belfast

PHARMACEUTICAL ASSISTANTS' EXAMINATION.

Harris, Harry, Ranelagh, co. Dublin, has passed.

REGISTERED DRUGGIST EXAMINATION.

The following have passed and been registered:—

Aplin, Edgar Bradford, Irishtown, co. Dublin
Birt, Michael, Maghera, co. Londonderry
Bright, Arthur Thos., Belfast
Dougan, Alfred Moore, Belfast
Hamilton, —, Belfast
Herron, Robt., Belfast
Macauley, James, Banbridge
McBride, Thos. C., Belfast

PHARMACEUTICAL LICENCE EXAMINATION.

Seventeen candidates were examined, ten failed, and the following seven passed:—

Adamson, Wm. John, Ballina
Deans, James, Belfast
Hogg, Saml., Belfast
Jones, Wm., Dublin
McFadzean, John, Belfast
McLoughlin, Wm. J., Dublin
Ray, John Armstedt, jun., Rathgar, co. Dublin

Chemistry: Ancient and Modern.

Abstract of a lecture delivered by Mr. Patrick Kelly, M.P.S.I., at a meeting of the Pharmaceutical Chemists' Assistants' Association of Ireland, on Thursday, April 8.

THE word *chemia* occurred in some of the most ancient writings of the Greeks, and was really defined as the art of making gold; so chemistry was considered by the ancients as the art of producing that most precious metal in the same degree, perhaps, as folk nowadays said it was the science of making money. The latter definition might well be queried by the modern chemists, although they accepted that of the ancients. The science of chemistry of to-day is that which treats of the composition of the various materials of which the earth is formed. A special branch is called analytical chemistry, and this is subdivided into qualitative and quantitative analysis. Matter is everything which has weight, and exists in one of three conditions—*i.e.*, solid, liquid, or gaseous. The elements which go to make up matter are about seventy in number. Chemists, being inquisitive, ask is matter eternal, or what is its origin? The first verse in Holy Writ says, "In the beginning God created the heavens and the earth," and then there came a full stop. From the first to the second verse millions of years might have elapsed, and yet leave room for all the changes which had taken place.

There can be no doubt that chemistry is the oldest of the sciences. Suidas, a Greek writer of the eleventh century, was the first to use the word "chemistry," but he himself asserted that it was mentioned in old manuscripts more than 1,200 years before the Christian era. Referring to Genesis ii., 11 and 12, one found gold most familiarly mentioned, as if it were well known, it being stated that "the gold of that land was good." Precious stones were

mentioned, and also that Tubal Cain was an instructor in all artifices of brass and iron. And in the days when Moses lived in Egypt, previous to his leading the children of Israel out from under the yoke of Pharaoh, gold and silver were commonly spoken of, and even iron, copper, lead, and zinc were well known to the Egyptians, and it was not to be snpposed that Moses, who was skilled in the wisdom of the Egyptians, knew nothing of the science of chemistry. Apothecaries also are referred to in the Book of Exodus.

The lecturer believed that alchemy differed little from chemistry, seeing that its aim was to discover something unknown, and then, as now, there were true philosophers and impostors of the worst description. That alchemists practised the most dishonest acts went without saying; but some of their experiments showed good reasoning. They evaporated water, and found that it disappeared and left behind it earth; they therefore concluded that water was composed of air and earth. A piece of lead was heated; it lost its lustre, and became a reddish powder different in its properties to the powder known to the modern chemist as litharge or oxide of lead.

The philosopher's stone was sought after by generations of alchemists, who fondly believed that once secured there would be no difficulty in turning the baser metals into gold by its aid. It was recorded that Henry IV. in 1423, in four successive decrees, summoned all the nobles of England, together with the doctors and wise men, to search for the magical stone, that he might pay off the debts of theState.

At this juncture the lecturer exhibited a number of slides representing chemists past and present, amongst them being Boyle, Black, Priestley, Davy, Lavoisier, Cavendish, Faraday, Dalton, &c., and gave with each photo-slide an interesting account of the chief incidents in the lives of the men. Boyle hailed from Youghal, and was the first scientific chemist met with in the seventeenth century. Black was born in Bordeaux, but his father was a Belfast man, and his mother was from Scotland. The nationalities and principal events in the career of the other chemists mentioned were referred to in an interesting manner, and, in passing, the speaker said he was indebted to the courtesy of the Editor of THE CHEMIST AND DRUGGIST for the information which enabled him to exhibit the slides.

The lecture, which lasted for two hours, was brought to a close by the exhibition of a large number of photographic slides of men and things taken by the Röntgen rays, and a practical demonstration of chemistry, which afforded amusement and instruction to the audience.

Mr. W. J. Hardy, Vice-President of the Association, moved a vote of thanks to the lecturer. Mr. Kelly, he said, was the first member of the Council that came forward to assist the Association by his advice and help of a substantial nature. Mr. W. U. Smith seconded the motion, which was carried unanimously.

Professor Tichborne, in conveying the vote of thanks, referred in flattering terms to the lecture, and alluded at some length to Higgins, an Irish apothecary, who came second to none in the category of great men of chemistry.

INJUSTICE TO IRISH PHARMACY.

Mr. Kelly, in his reply, said it was a singular fact that in Ireland not a chemist had received of late years any reward whatever for his labours on behalf of suffering humanity. The Pharmaceutical Society of Ireland, although chartered by the Government, had as yet not been taken notice of officially. In the compilation of the new British Pharmacopœia not a single representative from the Pharmaceutical Society of Ireland had been placed on the committee. He was not a politician, but he did say that this was another injustice to Ireland.

Mr. McWalter having been moved to the second chair, Mr. O'Sullivan, in proposing a vote of thanks to Professor Tichborne for presiding, said that they should not let pass the grievance that the Irish Society had no representation on the new Pharmacopœia Committee, on which there were no fewer than three or four representatives of the Pharmaceutical Society of Great Britain and one of the Apothecaries' Hall. He was astonished that the Pharmaceutical Society of Ireland allowed the insult to pass, especially when they had such men as Professor Tichborne and Messrs. Wells and Kelly. He supposed it was another case of "No Irish need apply."

Market Movements.

BUSINESS is rarely good for a week before Easter and a week after, so a big slice of dulness occurs April markets. However, they have not been without fe of important interest to buyers, and those who are for to follow THE CHEMIST AND DRUGGIST market r week by week may have been saved many a soverei acting promptly on the advice given therein during th month.

* * * *

It was observed at the beginning of the month carbolic acid began to show a stronger feeling. The m facturers were and are very busy, the output durin winter months having been below the requirements, the demand has increased. It is said that the low pr salicylic acid has greatly stimulated the consumpti that article, and consequently the use of carbolic ac the salicylic makers had increased. On the other hand thought that if the present high carbolic quotation maintained throughout the summer they may chec consumption of the article in certain directions—c manufacture, for instance—but, of course, nothing does to affect the consumption of the acid as a disinfectan margin between the first cost and the retail price bei ample that a penny or two on the former is not put o latter.

* * * *

Cod-liver oil has gone off considerably. Seldom d winter begin with such high prices for ol. morrhuæ, an with such low ones. The fact is, of course, that the catch of cod in Norway has been quite exceptional. the quantity of oil made is estimated at 25,300 barr unrefined oil. The largest quantity ever made before 1893, when the total production amounted to 30,500 ba but this year most of the Finmarken oil has still to co and there is reason to suppose that the total will reach barrels. It is a curious circumstance that Newfoundla has once more begun to be felt in the market, and the for it to-day is actually higher than that of the Norwe which completely drove the Newfoundland ont of the m fifteen or twenty years ago. That was because the foundland had gone off in quality somewhat, but lat has greatly improved, and the Local Government is its best for the industry. In the near future we may another source of supply—viz., Japan.

* * * *

Scammony is likely to go higher. The fact does create much excitement, for the drug is no longer favourite that it was, and were it not for pil. col. co. (which it scarcely would be missed), it would become tically obsolete.

* * * *

Iodine has gone down by 1½*d.* per oz., and iodide sympathy.

* * * *

Following are the principal changes during the month

Higher	Lower	Higher	Lower
Cloves	Oil of peppermint	Cape aloes	Iodine
Scammony	Menthol	Calumba	Colocynth
Strychnine	Cod-liver oil	Sassafras oil	Chlorate potash
Carbolic acid	Castor oil	Shellac	Podophyll
Ginger	Linseed	Gentian-root	Cardamom
Mastic	Thymol	Sarsaparilla	Cubebs
Cream tartar	Camphor (crude)	Opium	Ergot of r
Blood-root	Orris-root	Bleaching-powder	Kola-nuts
Cevadilla	Sulphonal	Honey	Glycerine
Lycopodium	Jalap	Beeswax	Saffron
Vanilla		Rhubarb	
Turmeric		Ergot of rye	
Persian galls		Bellad.-root	
Insect-flowers			

THE CHEMIST AND DRUGGIST announcement is page 83.

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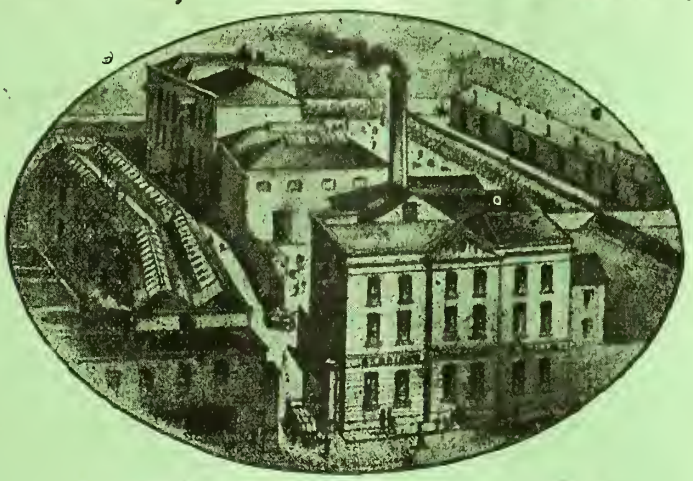

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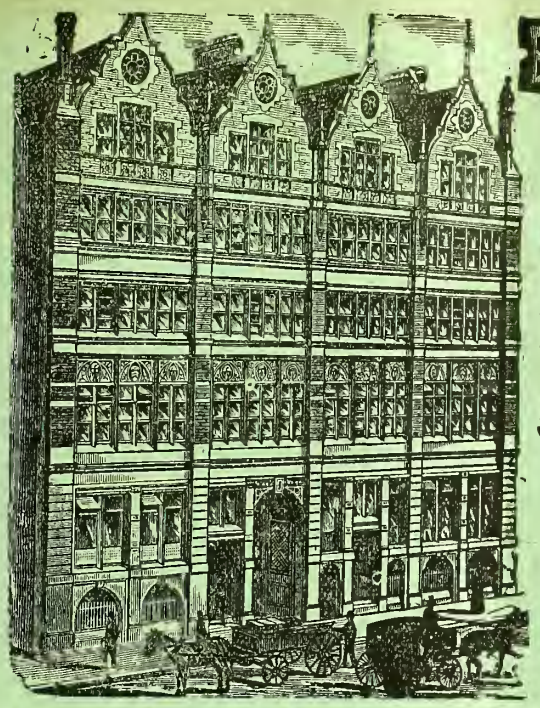

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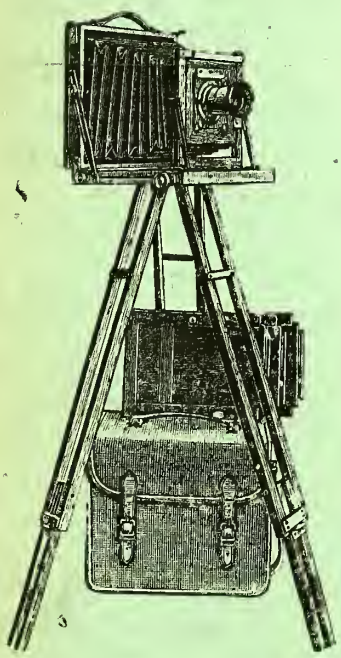

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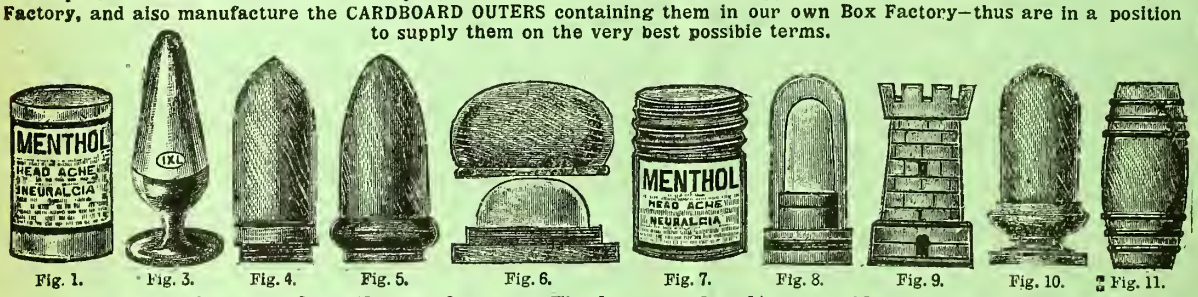

Fig. 1. Fig. 3. Fig. 4. Fig. 5. Fig. 6. Fig. 7. Fig. 8. Fig. 9. Fig. 10. Fig. 11.

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„ 8	...	„ 9	...	„ 4/–	„ 17	...	„ 10	...	„ 6/–	„ 26	... — ... „ 42/–

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APRIL 3, 10, 17, 24.

AMONG the multitude of articles which have appeared in THE CHEMIST AND DRUGGIST during the past month may be mentioned the following:—

A Pharmacists' Pharmacy.—Description of an experiment in New York, where all new remedies can be supplied.

Analysis of Oil of Lemon.—By A. Soldaini and E. Berté; special article contributed to THE CHEMIST AND DRUGGIST.

Apothecaries' Hall of Ireland.—The Privy Council's decision in favour of the Hall and in opposition to the Medical Council.

Beeswax.—Report of a libel action between beeswax-merchants, with comments on the various beeswaxes in the market.

Bismuth Preparations and their Impurities.—An original investigation by Barnard S. Proctor, F.I.C.

British Honduras Sponge, with illustrations of the fishery.

Chemical Society.—Full details of the proceedings at the anniversary meeting, when for the first time there was a contest for the presidency.

Company News.—Registration details of Hayes, Conyngham & Robinson (Limited), Dublin; Samuel Gibson & Co. (Limited), Belfast; Boots Cash Chemists (Western) (Limited); J. C. Eno (Limited), A. J. White (Limited), and many other drug companies. Reports of Barclay & Sons.

Company-pharmacy.—Letters from Mr. McWalter, Mr. William Hayes, and other Irish pharmacists, in reference to the amalgamation of Dublin businesses; editorial comments on this correspondence; editorial comments on Lewis & Burrows's report.

Coroners and Chemists.—A number of inquests are reported in which coroners comment on the practices of chemists; and an interview is given with Mr. Braxton Hicks, the Coroner (with portrait), chiefly on the subject of the scheduling of carbolic acid.

Dispensing Difficulties.—Results of a prize competition.

Drug-contract System in Ireland.—Further articles and news concerning the methods by which drugs are contracted for by the Irish Poor-law Unions.

Fancy Titles, such as lime-juice and glycerine, bears'-grease, castor-oil pills, &c.

Formulæ for pile-mixture, hair-lotions, moth-averter, cochineal-colouring, application for insect-bites, true lime-juice and glycerine, violet-powder perfume, bird-tonic, baking-powder, label-paste, glass-silvering, liquid dentifrice, white boot-top powder, lavender-water, Persian dentifrice, rose-water, cure for rot in sheep, sulphur skin-lotion, ginger-beer syrup, sarsaparilla and quinine blood-mixture, weed-killers, children's hair-lotion, infants' preservative, bismuth hair-dye, gelatine solution for horse-balls.

Henry Heath Hellier, a notable bankrupt, whose purchases of druggists' and other goods have been notorious, sentenced to two years with hard labour.

Injunctions in respect to syrup of figs, pink pills.

Novelties.—Critical notes on Calvert's painting-book, mescal buttons, Maypole showcards, Forret's milk-sterilizer, Jubilee drinks, Moseley's glove-cleaner, Columbia petrolatum, Victorian perfumery, Jubilee illumination-lamps, royal lily perfumes, bulk powder-boxes, Eclair insecticide-sprays, N. F. cocoa, new catheters, Lloyd's specialities, antivenene, D. C. L. malt-extract, ovaline, new tabloids, new palatinoids, saxin, rubber cork, &c.

Pharmaceutical Apparatus for rapid filtration, for straining, and for recovering spirit.

Pharmaceutical By-laws.—Comments and correspondence on the proposals of the Pharmaceutical Society of Great Britain to raise the examination-fees; *Truth's* comments on; discussions at Aberdeen and Plymouth.

Pharmaceutical Societies of Great Britain and of Ireland.—Reports of Council meetings and examination results.

Pharmacy Act.—Reports of prosecutions, notably of a large number of unqualified assistants in doctors' shops in Scotland.

Pharmacy Act (Ireland).—Sale of sheep-dip.

Photographic Notes, by a pharmaceutical camerist.

Prepared Foods for Infants.—Medical comments on at inquests.

Proprietary Articles Trade Association.—Report of annual meeting, and weekly notes on progress; Sir Edward Clarke's opinion on its legality; notes on the present position of the speciality question in France.

Rontgenography for Pharmacists.—An explanation of the method of introducing, by a chemist who has had experience.

Sale of Food and Drugs Act.—Prosecutions in regard to glycerine and lime-juice, tinct. belladonnæ, olive oil, lime-juice cordial, water in glycerine.

The Minor Examination.—Comments on proposals to extend this.

The U.S. Tariff.—Notes on the chemical section.

Tracking the Rinderpest.—An illustrated account of Dr. Koch's work in South Africa.

Trade Reports.—The best and fullest reports of the drug-sales and of all the drug and chemical markets.

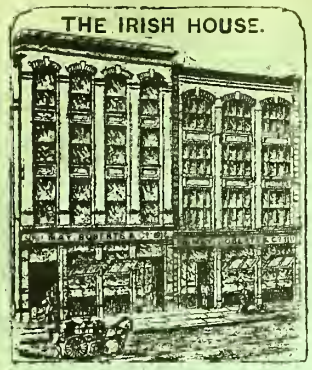
West Indian Pharmacopœia, by Dr. Ince, of Trinidad.

Westminster Wisdom.—Notes from Parliament on matters interesting to chemists.

No chemist and druggist can afford to be without THE CHEMIST AND DRUGGIST. Its volumes are encyclopædias of trade information and advice. Subscription, 10*s.* per annum, post free, including fifty-two weekly numbers and an annual diary. Subscriptions commence with the first issue of any month.

Can Ireland Make Calcium Carbide?

MR. THOMAS HOLLIDAY, J.P., chemist and engineer, of Huddersfield, thinks so. He was one of the witnesses before the Committee on the Industries (Ireland) Bill, and in the course of his evidence spoke specifically upon the utilisation of the water-power of the country. It is too feeble during certain parts of the year, he thought, to be useful without reservoirs, but with such modification it might be greatly improved and made available for higher industrial uses than hitherto. Asked to give an example of how this might be applied, he instanced the production of electricity, and the utilisation of the latter power for the manufacture of calcium carbide, which, he explained, is made by melting coal and lime in the electric furnace at a temperature of 2,500° to 3,000° C. At this heat the two bodies run together, and on cooling crystallises as calcium carbide. When this body is put into water 1 lb. of it generates 5 cubic feet of gas, which gives a light of 250 candle-power for an hour. Common coal of equal amount yields 25 feet of gas, or, say, 18 candles for an hour. He predicted that the consequence would be that instead of converting coal into gas, as at present, they took one ton of coal, which gives 30,000 candle-illuminating power for an hour, and converts it by electricity into carbide of calcium, they would be able to produce light nearly equal to 1,000,000 candles. The coal in Ireland is not of sufficiently good quality for the production of this gas, so that it would be necessary to import coal. A large amount of carbide, he stated, is produced at the Niagara Falls at the cost of 15*l.* per ton, but by the time it reaches England, owing to the high freights charged on account of the scare arising from the alleged danger of explosions, the price reached about 28*l.* If they were able to manufacture it in Ireland the charge would soon go down to about 10*l.*, ultimately even lower, and the light given would be the cheapest in the world. Mr. Holliday showed the committee an apparatus for producing acetylene from calcium carbide, and the members appeared to be much interested, and became quite merry when Mr. Holliday mentioned that alcohol can be made from calcium carbide. He also stated that the French Government had made a grant to Professor Moissan of 200,000f. to continue his experiments with acetylene, so valuable did they consider its advantages. In his opinion, the manufacture of this gas was only in its infancy. In the course of examination by various members witness held that the various mountain streams in the districts which he had visited could be harnessed so as to produce the requisite amount of water-power. Irish coal, if washed, might do for the production of gas, but he had not experimented upon it in that condition. In England acetylene was used for lighting shooting-boxes, and in one or two cases railway-stations. In all cases it had given satisfaction. The ordinary gas in Irish towns was much dearer than in England, while a good many Irish towns were lighted by oil. There was no lack of lime throughout Ireland, so that the manufacture of the carbide would not suffer on that account.



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POSTCARD COMPETITION.

THE following are the surnames of the candidates for 14 vacancies in the Pharmaceutical Council to be polled for this month :—

Allen	Grose	Savory
Atkins	Hampson	Southall
Bottle	Harrison	Warren
Campkin	Hyslop	Young
Carteighe	Martindale	
Corder	Park	

We ask subscribers, their families, and staffs to write these names on postcards in the order in which they think the candidates will stand when the poll is declared. One guinea will be given for the card which comes nearest the declared result. The competition will close on May 10.

AMERICAN AND CANADIAN TRADE.

THE annual special circulation of THE CHEMIST AND DRUGGIST falls this year on May 22, and in consequence of the new Canadian tariff arrangements, which are commented on elsewhere in this issue, we propose to address the whole of the drug-trade (wholesale and retail) doing business in British North America. This will afford the drug and allied trades at home a quite exceptional opportunity for business announcements, and the opportunity is enhanced by the prospective visits of the British Medical Association to Montreal and the British Association to Toronto. Application should be made as early as possible to our Publisher for space.

SUMMARY

ZOLA and a pharmacist are the subject of a note on p. 633

WATERED glycerine has again brought traders into trouble (p. 689).

MORE samples from our foreign competitors are now exhibited in London (p. 700).

THE attractions offered by Glasgow for Conference visitors are described on p. 688.

THE formation of an association of chemists in Forfarshire is reported on p 707.

MR. HAROLD WYATT'S notes on dispensing-difficulties are instructive. See p. 701.

MR. STRATTON shows in his note on p. 700 that commercial liquor potassæ contains lead.

IODINE has dropped 1½*d.* per oz. this week. The particulars are given in our trade report (p. 703).

OUR Paris correspondent gives some notes on Salon pictures which interest our readers (p. 684).

THE Registrar-General's report shows that the fatalities from carbolic acid increased in 1895 (p. 698).

A SCORE of analysts applied for analytical posts in Lincolnshire: Messrs. Cassal and Wightman Bell are the lucky men (p. 682).

FURTHER correspondence is printed on p. 709 regarding the formation of pharmaceutical limited companies in Ireland.

FRENCH pharmacists are desirous of adopting P.A.T.A. methods, as will be seen from the special reports beginning on p. 684.

SEASONABLE formulas for Myrrhodol, Sweet Mitcham Breezes, Mothol, Beauty Blanche, and Perspirol are given on p. 686.

THE chemistry notes on p. 636 deal with the aconitine controversy, the composition of wool-fat, and a new analysis of asafœtida.

IRISH Poor-law Guardians are beginning to realise that drug-tenders are capable of improvement. So two paragraphs on p. 683 indicate.

THE controversy about the Chemical Society presidency is not dead yet. There is a curious note on p. 700, and a letter by Mr. Wanklyn on p. 710.

THE properties of gas-lime have given rise to a legal difficulty, in the North of London, which the Magistrate had to decide with his nose (p. 682).

THE new Canadian tariff, which gives a 12½-per-cent. advantage to imports from Great Britain over those from other countries, is dealt with on p. 696.

THE Pharmaceutical Council on Wednesday confirmed the amended by-laws which increase the stringency of the Preliminary examination and the Minor fee (p. 631).

SOMERSET HOUSE chemists and several leading London analysts are likely to have a pitched battle about the analysis of milk, as will be seen by the report on pp. 633-9.

"SOLIO" has been before the Court of Appeal, which sustains the lower Court's decision that it is a descriptive word, therefore not registrable as a trade-mark (p. 690).

THE North British Branch of the Pharmaceutical Society has unanimously passed a resolution calling upon the Council to amend the Pharmacy Act so as to make associates eligible for election as members of Council (p. 637).

MESSRS. EBERLIN AND SARGEANT reply to Mr. Gascoyne in reference to the ten-guinea Minor-fee (p. 703); Dr. Symes has persuaded a Liverpool audience that it is no more than the Pharmaceutical Society deserves (p. 695). Edinburgh young men supported the Society none too heartily (p. 695), and we repeat some facts which the Society and its supporters fight shy of (p. 699).

E—C

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

A Devonshire Medical Officer's Remuneration.

Dr. A. McKeith, medical officer of the Ilfracombe district, in making an application to the Barnstaple Guardians last week for an increase of salary, stated that his remuneration was 70*l.*, of which 30*l.* was expended in medicine, leaving 40*l.* for services and road expenses. During the past twelve months he had made 2,620 visits, which was at the rate of $3\frac{1}{2}$*d.* per visit. Many of the visits were to places at a distance. A Guardian gave notice to move that the salary be increased from 70*l.* to 80*l.*

"The Studies of a Pharmacist."

This was the title of a paper read before the Midland Chemists' Assistants' Association on April 21 by Mr. F. H. Alcock, F.I.C. Mr. Alcock glanced at the various subjects which a pharmacist was required to know, and commented principally on those branches which the results of examinations showed he was frequently deficient in. In chemistry, for example, he said it was curious to find that a man knew the formula for CO_2 and H_2O, and yet did not know the formula for acetic acid and the common vegetable acids. Such was the result of separating the two branches. The practical studies were, perhaps, the most important. He pointed out, too, the value of a knowledge of modern languages nowadays.

The Chairman (Mr. Lawton) subsequently moved a resolution:—

> That this Association expresses its support of the Pharmaceutical Society in the proposed changes in the by-laws relating to examinations, and expresses the opinion that the Preliminary or First examination should be made compulsory to be obtained before apprenticeship.

This was seconded by Mr. Bindloss, supported by other speakers, and carried.

Photographic Exhibition.

The Royal Photographic Society has called a meeting of the trade to be held at 12 Hanover Square, W., on Tuesday, May 11, at 3.30 P.M., for the purpose of considering the preliminaries for an International Photographic Exhibition, to be held at the Crystal Palace early next year. It is proposed to make the Exhibition a complete and representative collection illustrative of the development and present position of photography in its widest sense, such as up to the present has never been brought together.

The Magistrate and the Chemists.

On Monday Mr. D'Eyncourt, the Magistrate at North London Police Court, gave his decision in the case previously reported, in which expert evidence was given as to the noxious character of gas-lime. The summons was against barge-owners for conveying gas-lime down the river Lea in uncovered barges, and the case was adjourned to enable the Magistrate to go and see and smell for himself. Mr. D'Eyncourt now said that he heard a great deal of evidence of a very interesting nature from scientific and medical gentlemen. On behalf of the Vestry, it was said that the gas-lime was not only extremely offensive to the smell, the inspector saying he could smell it a hundred yards off, but it produced nausea, loss of appetite, and general decay of the system. One gentleman went so far as to say that a cat belonging to the owner of one of the barges had died as a consequence of being kept on the barge, but no evidence was given as to the constitution of the cat. (Laughter.) On the other side, there was equally positive evidence that it was not only not offensive to the smell, but was highly pleasant—(laughter)—and was sought after especially by parents whose children suffered from whooping cough. One gentleman said that, although he had not actually selected the spot adjacent to the canal for his residence because of the coming and going of the gas-lime barges, still he would on no account leave it. Indeed, he welcomed the advent of the gas-lime barges. Under these circumstances, he (the Magistrate) felt that he must see and smell and make inquiries for himself. So he selected a day when he hadn't a cold in his head, and went to the gasworks from whence the gas-lime was loaded, and to the river along which it was being conveyed. His proposed visit was opposed by counsel for the defence, because he might not see the lime as it was barged away. But he (the Magistrate) went to the place where the loading took place; he saw the gas-lime as it came from the purifiers, and also when it had been two weeks out of the purifiers. He saw it smoking hot and when its active properties were practically dead. He came to the conclusion that, though it was not very delightful to the smell, there was nothing offensive or noxious about it. Therefore, on the face of the evidence produced in Court and on his own sense of smell, he must dismiss the summons. He did not know if Mr. Eldridge (counsel for the prosecution) had smelt this gas-lime? Mr. Eldridge: Oh, yes, indeed I have—from afar off! (Laughter.) Costs were asked for and given against the Vestry—4*l.* 4*s.*

A Tournament of Analysts.

At the Quarterly meeting of Holland (Lincs) County Council the appointment of a public analyst under the Food and Drugs Act and of a district agricultural analyst under the Fertilisers and Feeding-stuffs Act was proceeded with. The following were candidates for the posts:—Mr. Jas. Baynes, Hull; Mr. E. Wightman Bell, Spalding; Mr. S. F. Burford, Leicester; Mr. Chas. E. Cassal, Leadenhall Street, London; Mr. Richard A. Cripps, Finsbury Circus, London; Dr. Bernard Dyer, Great Tower Street, London; Mr. H. E. Ivatts, Weymouth Street, London; Mr. T. H. Lloyd, Penygraig, near Pontypridd; Dr. John Muter, Kennington Road, London; Mr. C. Edward Sage, Red Lion Square, London; Dr. Wm. R. Smith, King's College, London; and Dr. Voelcker, 13 Hanover Square, London. There were four other applications not received in time. The Council decided not to open these. Mr. Cassal was appointed public analyst, and Mr. Bell district agricultural analyst.

Rabies in Dogs.

The muzzling order issued by the London County Council gives the following as the symptoms of rabies in dogs. The description might have been taken from "Veterinary Counter-practice." 1. Change of habits and restlessness; 2. Hiding in dark secluded places; 3. Depraved appetite, often gnawing or eating hard substances; 4. Difficulty of swallowing, although showing no dread of water; 5. Altered voice; 6. Thick saliva hanging from the mouth; 7. Snapping at the air or at imaginary objects; 8. Fits of excitement and fury; 9. Wandering from home and snapping at other animals.

Charges of Embezzlement.

On Tuesday at the Blackburn Police Court, William Pomfret, a traveller, was summoned by Messrs. A. Brothers, Hesketh, Bean & Co. (Limited), chemists and drysalters, of Blackburn, for embezzling 1*l.* 17*s.* 1*d.* It was stated that the defendant was formerly a director of the company, but afterwards resigned, and was engaged as traveller at a salary of 2*l.* 10*s.* per week, with 5 per cent. commission on all money collected, he paying his own expenses. It was alleged that he received 5*s.* from one customer and 12*s.* 8*d.* from another, which sums he had not accounted for. For the defence it was contended that the money had been accounted for in the presence of one of the directors, and had been booked up against the defendant. It was also urged that supposing there had been any retention of money, the two sums mentioned were too trivial to found a criminal charge upon. The Bench dismissed the case, but warned defendant that he had been sailing very near the wind.

At Bedford on Monday, Arthur John Conroy, chemist, was committed for trial on a charge of embezzling over 80*l.* the money of his employers, Messrs. Boots (Limited)

chemists, during the month of March. The system of accounts kept by Messrs Boots requires each of their branch managers to send at the end of each week a statement showing the gross takings and the accounts banked. During March, Conroy furnished three statements showing that about 80*l.* had been received and paid into the bank. When the bank returns were compared with his statements, Messrs. Boots found that not a penny had been paid in, and at once instituted proceedings.

The Benevolent Fund.

The contribution raised by the Manchester and district assistants and apprentices to the Benevolent Fund now stands as under:—

	£	s.	d.
Amount previously acknowledged ...	13	17	6
Barlow, H. O...	0	5	0
Barlow, A. H.	0	10	6
Butterfield W.	0	2	6
Dickson, D.	0	5	0
Eaton, R.	0	2	6
Fenton, R.	0	5	0
Gartside, A. W.	0	2	6
Harrison, A.	0	5	0
Hewarth, —	0	1	0
Hughes, W.	0	2	6
Roberts, H.	0	10	6
Scaife, S. B.	0	2	6
Swinn, R. F.	0	2	6
W. A. M.	0	5	0
Woodward, H.	0	2	6
Amount up to date	£17	2	0

Western Chemists' Association Smoker.

The meeting of this Association on Wednesday night took the form of "a musical and social evening," when some forty members and friends listened to a very enjoyable concert. Mr. J. W. Taplin (President) was in the chair, and during the interval he proposed the health of Mr. Alexander Bottle, of Dover, who was present. The toast was heartily drunk, and Mr. Bottle responded in felicitous terms, saying that as he was spending an evening in London on pharmaceutical work he thought he could not do better than pass it with the little gathering of his West-end friends, and cordially thanked them for the invitation, although he almost felt an intruder. Among the contributors to the evening's entertainment were the Brothers Worsley. Messrs. Tennant, Goulding, and F. Andrews (who delighted the audience with a humorous reading and concertina solo).

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Personal.

Mr. A. C. McBride, M.P.S.I., of Armagh, has been elected one of the Conservative Commissioners for that city.

Exhibition in Dublin.

The spring show of the Royal Dublin Society, which was brought to a close on Saturday last after a very successful four days' exhibition, included amongst the stall-owners a number of representative drug and chemical houses. Spratt's Patent dog-biscuits were among the exhibits. Lawes' Chemical Company showed sheep-dips, manures, linseed cakes, &c. Messrs. Morris, Little & Son, Doncaster, also showed their sheep-dips and other stock chemicals. Messrs. Paul & Vincent, Blackhall Place, showed linseed-cakes, non-poisonous sheep-dips, &c. The Phœnix Oil-mills, Liverpool, exhibited linseed-meal and various chemical compounds useful for cattle. Messrs. H. M. Leask, of Sir John Rogerson's Quay, exhibited condiments. Messrs. Day, Son & Hewitt submitted a good collection of their cattle-medicines; and Jeyes' Sanitary Compounds Company showed their well-known disinfectants.

Guardians are Waking Up.

The Chairman of the Athy Board of Guardians, commenting on the medicine-contract last week, said there appeared to be an impression that for the small difference of 10*s.* the Board had withdrawn the contract from the local man and accepted the tender of a stranger. That was not so. The sum of 10*s.* appeared as the difference in one item, but as this was a much-used medicine the real difference on that one would be at least 5*l.* The committee had carefully gone over the list so as to put an end to the dodgery of contractors putting down a very low price for medicine seldom or never used, and charging high prices for medicines that were in constant use. The medicine-contract to the Union came to 300*l.* a year. One Guardian said he was told that spirit of wine appeared in one of the tenders at 6*d.* per gallon, whereas it could not be bought for less than 24*s.* per gallon, but it was an article which was never called for.

The Cavan Dog "Doctor."

Last week, in the High Court of Justice, Dublin, the Master of the Rolls ordered the Guardians of the Newry Union to be surcharged the amount which they recently paid to Philip McGovern, the Cavan hydrophobia "doctor," in respect of certain cures effected by him on persons suffering from dog-bite, on the ground that McGovern is a farmer and not an apothecary or a physician, and that his house is not a surgery or a hospital within the meaning of the Act.

Must the Lowest Tender Get the Contract?

The medicine-tenders for the Kanturk Union and nine depôts were considered by the Guardians last week. The clerk reported that the medical officer had selected sixty of the medicines most generally used, on which basis a comparison was made of the prices in the various tenders. The tender of Mr. Sewell, of Killarney, came out the lowest, but the difference in the aggregate prices of the various firms tendering was very little. It was proposed that the lowest tender be accepted, but finding that the tender of a local chemist, Mr. John J. Eggleston, M.P.S.I., was only 11*s.* higher on the sixty articles than Mr. Sewell's, the majority of the Board resolved to give him the contract. The Guardian, however, who proposed to give the contract to Mr. Sewell insisted that the lowest tender must get it by law, and was confident that the L.G.B. would support his view.

French News.

(From our Paris Correspondent.)

International Pharmaceutical Congress.—It is proposed to hold the ninth congress in Paris in connection with the World's Fair here in 1900.

The Mutual Help Society of the Friends of Science held its annual public meeting last Thursday, April 29, in the large amphitheatre of the new Sorbonne, Paris. The well-known chemist. M. J. Bertrand, of the Academy of Sciences, presided, and he varied the official nature of the proceedings by reading an interesting paper on the "Life of a Savant in the Sixteenth Century." The object of the Society is to assist scientific men, or their families, who are in distress.

Emile Zola in the Mud.—Last Saturday evening M. Zola was crossing the rue de Provençe, and, in a moment of absent-mindedness, he found himself in the mud under the hoofs of a cab horse. He was conveyed to the nearest pharmacy, which, in France, is the natural haven of all persons in distress. The proprietor of the pharmacy, Dr. Lafay, tells me he was charmed with his guest. Zola insisted that the mishap was entirely his own fault, and begged the police not to worry the cabman. As an old Parisian and a cyclist, he said he deserved no better fate for not having his wits about him. Although badly bruised, he would not make use of the resources of the pharmacy. He

wanted a little rest, he said, and not drugs. The novelist thanked the pharmacist for his *rôle* of good Samaritan, and was able to return home on foot.

Science at the Salon.—Among the paintings at the Salon this year which will undoubtedly attract chemists and scientists is M. Detaille's official painting in Room 13, "Pasteur's Funeral." The painting is as fine in its way as the capital portrait of the Prince of Wales, exhibited by the same artist a couple of years ago, and it appears to have as much success as any in the Salon. It shows the coffin on a catafalque in front of Nôtre Dame. The principal figure is the President of the Republic, M. Felix Faure. Some well-known professors and scientists are pourtrayed in their bright academical robes, others in ordinary attire, while the military element is especially strong. The colouring is excellent, and if fault can be found, it would be that the subject would have borne a larger canvas. Another picture of note is Bonnat's excellent portrait of M. J. Bertrand, the well-known chemist, who, with M. Berthollet, is joint permanent secretary of the Paris Academy of Sciences. The portrait bears a frank expression of great intelligence, and of the man who is sure of himself, while the fine forehead and flowing grey locks do much to mitigate Bertrand's homely features. The portrait is intended by the artist as a gift to Mme. Bertrand, and bears mention to that effect. "The Sorcerer" is a large size painting, depicting an old man of the accepted type, with patriarchal head and beard, sitting at a table. He holds a wand in his hand; before him are the customary large book and skull; the hour-glass and dim oil-lamp are not missing. On his right, on a window-sill, are a couple of bottles containing chemicals. They are, of course, a necessary part of his craft, but when sitting for the artist he was not making them much of a speciality. Perchance the local chemists' syndicate of the time had threatened him with an action for illegal practice of pharmacy! Behind the sorcerer stands a helmeted figure, which is supported by an elaborate daub of dark green paint.

A. H. Cabuzel sends a picture called "At the Dispensary." It shows the pharmacy of a nunnery. A Sister of Mercy, apparently under 30 years of age, is standing before a cupboard full of medicine-bottles. She holds a bottle in her left hand, and with the other is inscribing directions. This method of writing labels explains how mistakes may occur through illegible writing. There is a good deal of "style" in the Sister's attitude. She wears a very dignified and severe expression, and the woman and child who are waiting for the medicine seem suitably impressed. The scene apparently passes in Italy during the winter months, as there is a lighted *brazario* on the floor. In addition to the medicine-bottles, the only other attribute of pharmacy is a mortar and pestle.

Mlle. Marguerite Delorme exhibits a picture of the lecture-hall of the Val-de-Grace Military Hospital, Paris. A Surgeon-Major is giving a conference. The subject (a man) is lying in front of him, and half-a-dozen soldiers are assisting in the operation, all attired in the ordinary white-linen hospital costumes. On a blackboard the professor has made a rough sketch of the patient, to which he has added explanations. The usual hospital appendages, chemicals, disinfectants, &c., are visible. It is doubtless in the nature of things that a male artist should have chosen a nunnery for his subject and a lady a military hospital, but perhaps more justice might have been done to both pictures had the artists reversed their choice.

J. Sonrel's painting of "Dr. M. L. in his Laboratory" will repay more than a passing glance. The doctor is sitting with a microscope before him, and a host of bottles and various testing-apparatus are on the same bench. He wears an apron, and his arms are bare. A man of apparently five and thirty, his face is of the delicate and true scientific cast, and his hair and beard, already iron-grey, complete an interesting and sympathetic portrait. "Dr. Paul Cornet in his Laboratory at the International Hospital" is another picture of exactly similar stamp. He seems, however, more intent on his work and less in looking round at the public than M. Sonrel's client; but as a portrait the work is less good. As becomes his position at the International Hospital, Dr. Cornet is shown with a negro attendant.

Downstairs among the statuary is a fine group in white plaster, by A. A. Cordonnier, entitled "Inoculation at the Pasteur Institute." Medicine is represented by a young woman with an earnest and intelligent face. Her attire is artistic, or, as Philistines might say, scant. The patient is a boy of about eight years, who lies on the woman's knees while she injects antirabic serum into his side. A bottle of serum, antiseptics, &c., are at the base of the statue. This work is a well-merited tribute to the "Temple of Miracles" of the rue d'Ulm. The artist's conception is excellent, and is well carried out.

The French P.A.T.A. Movement.

Copie

A NATIONAL ASSEMBLY.

THE Association of the Pharmacists of France held its twentieth general meeting on Thursday last, April 22, in the Salle des Actes of the Paris School of Pharmacy. The proceedings were opened soon after 9.30 A.M. by M. A. Petit, the President. After sundry observations relative to the minutes of the general meeting held at Rouen on July 11, 1896, M. Crinon, the Secretary, read an account of the work accomplished by the committee during the past year. M. de Mazières completed the official business of the meeting by making the usual financial statement. The next question that arose was a "Proposal concerning the measures to be taken in order that pharmaceutical specialities may not be sold below the marked prices." When I returned to the meeting after lunch, M. Collard, of Marseilles, an ardent opponent to specialities in every shape and form, was in the middle of his speech on the subject. The hall was filled with Paris pharmacists and country delegates. A somewhat hostile feeling to the speaker seemed apparent, but his energetic manner and occasional amusing hits secured him a patient hearing. He quoted extensively from the speeches made by pharmacists who want to make an arrangement with the manufacturers, with the object of showing that in reality they shared his opinions to a large extent. As an instance he cited M. Crinon's statement that no agreement could be drawn up without its containing some loop-hole through which bad faith might creep. M. Crinon and other pharmacists, who probably found constructions put on their words they had not quite intended, smiled good naturedly. The manufacturers' syndicate, M. Collard went on, with whom they were negotiating, did not represent the whole body of specialists. Mariani, Rigaud, Geraudel, and others were quoted amongst the exceptions. The manufacturers, he said, have no sympathy with the pharmacists, and he was opposed to treating with them. One failed to understand why, in conclusion, he quoted Balard's dying words, "And, above all, do not forget that I was a pharmacist," until he added, "Balard discovered bromide, but did not exploit anything." This little sally gave the assembled pharmacists an excuse for relieving their feelings by a roar of laughter. The battle of words then continued. Several pharmacists rose, and with some show of indignation protested that M. Collard in his haste had deduced incorrect references from their words, putting wrong constructions on certain phrases. M. Petit also refuted M. Collard's arguments as valueless. English pharmacists, he remarked, had obtained the support of between twenty and thirty firms for their anti-cutting scheme. He mentioned Bovril and others. Why should they in France, who had commenced their agitation before their English colleagues, not continue on the same useful path of negotiations? At this juncture the meeting had evidently made up its mind on the subject, and cries of "Vote!" were heard on all sides; but some more speaking ensued. An elderly man rose, and was understood to say, "We have to do with honest people; let us act loyally and honestly by the specialists." M. Petit also explained the exact text of the proposition they were asked to vote upon. It was to the effect that if they could get the individual adhesion of 5,000 pharmacists in France, the manufacturers of specialities would promise not to sell to anyone making more than a 10-per-cent. rebate. In the midst of a running fire of conversation a voice in front cried out, "Gentlemen, why vote in half-an-hour's time what we can do at once?" He was cheered for the suggestion, and during the silence which ensued the vote was taken. Then followed the monotony of the counting, broken only by the energetic expostulations

of delegates who thought their votes were wrongly called. During this time M. Rièthe invited the members to the annual banquet at Marguery's Restaurant the same evening, and M. Collard cordially pressed all present to attend the Congress to be held the next day to discuss the total suppression of specialities, &c. Just before the vote came on one of my neighbours rose to leave. By way of explanation he said to me, "I sell specialities at full prices, so have no need to vote for a 10-per-cent. reduction." "Happy mortal!" I exclaimed as he retreated. When finally the ballot was declared, it was shown that 258 votes were in favour of continuing negotiations with specialists, while 82 were against such a course. In view of this majority the manufacturers will continue to be treated with. It should be explained that each vote is equal to ten pharmacists, or a fraction of that number, so that only half the number of pharmacists stipulated by the President were represented. This contest settled, a considerable number of pharmacists left the hall. The next proposal was offered by M. de Mazières, in the name of the Syndical Chamber of the Pharmacists of the Seine, and was to the effect that all medicinal substances that can be sold by any shopkeeper should be inscribed on the French Codex. This was practically a proposal to divide the Codex into two parts—namely, (1) substances of which pharmacists have the sole right of sale; (2) those that can be sold openly. The negative speakers expressed their opinions first, and they represented the country districts. They failed to see the use of making it too clear to grocers and others in an official publication how far they could legally encroach on pharmacy. The prevailing idea seemed to be that in this case it was better to leave "fairly well" alone, as otherwise outside traders might be tempted to ask for greater concessions. M. de Mazières thereupon withdrew his motion, after explaining that he believed it to be for the benefit of all, and he disclaimed any personal interest in the matter. Then a lengthy and interesting discussion followed a proposal made by M. Denize to the effect that pharmaceutical students should accomplish their time in a pharmacy after taking their diploma, not before, as now. The real point debated was the best way of producing a limited number of high-class pharmaciens. M. Denize cited Professor Gay, of Montpellier, and other authorities, as saying that the term served in a pharmacy before the student commenced his real studies was of little utility. M. Verne, pharmacist at Grenoble, and Professor at the Faculty of Medicine and Pharmacy of that town, being invited to speak, said he could only repeat the arguments made by him in 1889, but his speech was followed with marked attention. "When the law of 1803 came into force," he said, "chemistry was in its infancy." The pharmacien was merely a compounder of drugs. Now chemistry supplies its products to pharmacy, and pharmaciens have to analyse and test their purity. The pharmacist has become an analyst and a scientist. "Can a young assistant in his apprenticeship do such analyses, or even follow the operation? The new pharmacy law sought to elevate the status of the pharmacien [A Voice: And diminish their number.] "Quite so," acquiesced M. Verne. He added that doctors only really commenced their practical work after leaving the schools, and thought pharmaciens should do the same. M. Viaud opposed these ideas. His experience was that the coming generation treated their employers as if they were "fossils" and "antediluvians." He preferred the present system, and appeared to have a considerable following at the meeting. He suggested that instead of suppressing the apprenticeship, it would be more to the point to do away with the surplus and unnecessary schools. Then the Parisians called "Michel," who is a favourite speaker. "Pharmacists buy their medicines ready made and mostly very badly made," was the tenor of M. Michel's speech. "Let them make for themselves, and they will get better qualities at lower prices." Cries of "Utopia!" followed this diversion. Finally M. Rièthe, in a long speech, urged that things should be left as they are, and this view was carried by acclamation. He suggested that repressive measures should be taken against those pharmacists who signed apprenticeship or "stage" certificates for students without making them work in the pharmacy. He thought the resolution voted should be sent to the professors of the schools of pharmacy throughout France, and also to members of the Government. After the election of a Vice-president and other business, the meeting was brought to a close at 5 P.M. In the evening the pharmacists met together again for their annual banquet at Marguery's Restaurant.

PROVINCIALS MEET.

The meeting called by the provincial pharmaciens to discuss the speciality question and other subjects in a separate Congress was held at the Paris School of Pharmacy on Friday, April 23, the day following the meeting referred to above. M. Fortuné, of Béziers, was voted to the chair. He read letters from a number of professors of pharmacy and others. Professor Marchand wrote:—"If the law is voted as suggested by the committee of the Chamber of Deputies, pharmacy as a profession will soon be a thing of the past." Professor Jungfleisch, writing from Milan, expressed himself as follows:—"I think French pharmaciens have special reason to work, with a view of modifying the text of the proposed new law regarding their profession. It appears to me that they are menaced by the law in many ways. If they come to an understanding amongst themselves, I am persuaded they will be listened to and obtain their rights on many points." Fifty-six societies, having a total of 4,000 members, were represented at the Congress. All the members of the committee of the General Association of the Pharmacists of France were present as delegates of various societies. M. Demazières, of Paris, and M. Tujague, of Toulouse, were nominated vice-presidents, and MM. Collard and Neveu, of Marseilles and Havre, respectively, were named secretaries. After a somewhat heated debate, in which some of the provincial delegates urged the total suppression of pharmaceutical specialities, in accordance with their programme, the Congress decided, by a majority of twenty votes, that it was not expedient to support a movement in favour of total suppression. A proposal for regulating the sale of specialities was also adopted—to the effect that no speciality should be delivered to pharmaciens or the public unless it had been approved by the committee of the Codex. It was further suggested that such specialities should bear a label giving their complete formula, and the authorisation to sell them should be renewed with every new issue of the Codex. This proposal is ingenious, and differs from that of the General Association, as it would probably lead to the total suppression of almost all existing specialities, as only really new inventions could be "specialised."

The Congress afterwards discussed other topics of pharmaceutical interest. They disapproved the proposal of the committee of the Chamber of Deputies in regard to the inspection of pharmacies, but voted for the creation of Chambers of Discipline. They were in favour of limiting the number of pharmacies to this extent—namely, that no pharmacy should be opened without the nearest School of Pharmacy and the pharmaciens of the department interested having been consulted regarding the necessity of such. They also objected to giving prefects the power of closing pharmacies. Other questions were also discussed, and the President, Vice-Presidents, and Secretaries were named as a committee to see that the various resolutions are properly carried out.

The provincial pharmaciens have probably rendered considerable service to their profession by calling this Congress. The leaders of pharmacy in Paris are all highly-educated men, of superior attainments, but they are, perhaps, a little academical in their methods. Doubtless none more than themselves are better pleased to see men of determination and energy, such as M. Collard, M. Fortuné, and others, come into the arena and "make things hum." When they are on hand, there is no danger of only one side of a question being discussed. I might add that a leading provincial pharmacien has written to me on the subject of my remarks on "The Speciality-question in France," that appeared in last Saturday's *C. & D.* He says:—"If the specialists can count upon eminent men to defend them, I assure you most strongly that we are sure of the support of legislators belonging to all shades of political opinion, who will aid us to triumph in the claims of all the retail pharmacists."

Koch's New Tuberculin is rather costly. The Höchst-am-Main works offer it in 1-c.c. tubes for 8.50m. (8*s.* 6*d.*) and 5-c.c. tubes at 42.50m., subject to a discount of 25 per cent. to the wholesale dealers and 15 per cent. to retailers.

Chemistry, Mainly Pharmaceutical.

We have not yet heard the last of the aconitine controversy in which Professors Dunstan and Freund and others so heartily joined a year or two ago. In the March number of the *Journal* of the Chemical Society is a paper by Professor Dunstan and Mr. Francis Carr, which concludes as follows:—

Dunstan v. Freund.

Although in publishing our preliminary notice of pseudaconitine we stated that we were engaged in a complete investigation of the alkaloid, this did not prevent Herr Martin Freund from examining the alkaloid, and, nine months after the appearance of our paper in the Proceedings of this Society, publishing in the *Berichte* an account of his and Herr Niederhoffheim's experiments on the subject. They adopt Wright's formula for the alkaloid, and confirm our conclusion that pseudaconitine, like aconitine, contains an acetyl group. For the rest, they record melting-points which differ somewhat from those previously recorded by us, but since these points are in most cases decomposing-points, and depend on the conditions under which the observations are made, no real importance attaches to these discrepancies.

As to their assertion that pseudaconitine is the anhydride of the aconine derived from aconitine, it is to be observed that this statement is based solely on the numerical coincidence that the formula for pseudaconine deduced from Wright's formula for pseudaconitine—viz., $C_{25}H_{39}NO_8$, differs by one molecule of water from the formula which Freund has suggested for aconine ($C_{25}H_{41}NO_9$). But, as we have elsewhere pointed, out Freund's new formula for aconitine and its derivatives cannot at present be accepted as proved, and we have so far seen no reason to depart from a formula for aconitine, differing very slightly from that originally suggested by Wright, which does not allow of pseudaconine ($C_{25}H_{39}NO_8$) being regarded as the anhydride of aconine ($C_{24}H_{39}NO_{10}$). As a matter of fact, we have already described an anhydride (pyraconine), whose properties are very different from those of pseudaconine.

We should not be surprised if this were the last word upon the subject, as Professor Freund's previous contribution seemed to be written reluctantly.

* * * *

In continuation of their researches on the composition of wool-fat (*C. & D.* xlviii. 637), Drs. L. Darmtaedter and J. Lipschütz have now, in addition to the myristic acid and carnaubic acid which they previously isolated, been able to identify two other acids and the alcohols with which they are combined in the fat. The acids are lanocerinic acid, a di-oxy acid of the formula $C_{30}H_{60}O_4$, which melts at 103-104° C., and in the anhydrous condition ($C_{30}H_{58}O_3$) retains its acid character. They obtained it also as a lactone acid with the same empirical formula, but melting at 86° C., and on treating it with alcoholic mineral acid a conversion product melting at 97° C. was obtained. A fourth acid, lanopalminic, is also a new oxy acid, having the formula $C_{16}H_{32}O_3$, and forms a solid white crystalline mass. It has the remarkable property of self-saponification with water right up to the melting point, but on cooling forms a tough, sticky mass. Oleic and capronic acids have also been isolated in small quantities. The alcohols isolated were cerylic ($C_{27}H_{56}O$); another isomeric therewith, and an unsaturated alcohol. These were obtained from the first fraction of the petroleum ether solution; from the second fraction was isolated carnaubyl alcohol ($C_{24}H_{50}O$), which with the cholesterins form the bulk of the alcohols of wool-fat. When recrystallised from an abundance of alcohol it absorbs about three times its own weight of water, forming an homogeneous white, transparent, tallow-like mass. The third fraction consisted of cholesterin and unsaponified fat, the former being in brilliant white rhombic tabular crystals m.p. 140-145° C. It is probably identical with cholesterin from gall-stones.

Wool-fat Acids.

* * * *

In the last number of the *Archiv* is an interesting report by J. Polásek, one of Professor Tschirch's pupils, on asafœtida. The paper describes an approximate analysis of the drug (a fine sample in tears), hydrolysis of the ether-soluble resin with sulphuric acid and potassium carbonate, which resulted in the isolation of asaresinotannol, and the derivation of umbelliferons from ferulic acid—an important study which revealed the fact that the resin ester of asafœtida and its allied resins is not an umbelliferone ether, but a ferulic-acid ester. The paper contains an account of the experiments including the preparation of derivatives. The composition of asafœtida in pure tears is substantially as follows:—Ether-soluble resin (ferulic-acid ester of asaresinotannol), 61·4 per cent.; ether-insoluble resin (free asaresinotannol), 0·6 per cent.; gum, 25·1 per cent.; ethereal oil, 6·7 per cent.; vanillin, 0·06 per cent.; free ferulic acid, 1·28 per cent.; moisture, 2·36 per cent.; and impurities, 2·5 per cent. The author concludes from his study of the benzoyl and acetyl derivatives that asaresinotannol contains a hydroxyl group, and that the formula is $C_{21}H_{33}O_4.OH$.

Asafœtida.

Novel Profitable Extras.

By G. H. Dubelle.

Myrrhodol.

Tooth and Mouth Wash.

	Oz.
Eau de Cologne	16
French rose-water	8
Distilled witch hazel	8
Tincture of myrrh	8
Glycerine of borax	4
Salicylic-acid soap	4

Dissolve the soap in the eau de Cologne and tincture by a gentle heat; then add the other ingredients, and filter.

A few drops of this agreeable preparation to be used on the tooth-brush.

Sweet Mitcham Breezes.

A Very Fine and Most Fragrant Perfume.

	Oz.
Rectified spirit	25
Esprit de rose triple...	5
Mitcham oil of lavender	1
Tincture of ambergris	½
Tincture of musk	¼
Oil of bergamot	¼

Mix. Let it stand for some days before filtering.

Mothol.

A Pleasant Deodoriser and Moth-preventive.

	Oz.
Rectified spirit	40
Tincture of capsicum	5
Naphthalene	1
Absolute phenol	1
Menthol	½
Oil of lemongrass	½

Mix and filter.

To be used in the form of spray by means of an atomiser where the moths frequent.

Beauty Blanche.

This novel toilet-requisite gives an unrivalled softness, delicacy, and natural whiteness to the skin.

	Oz.
Distilled witch hazel	12
Prepared cucumber-juice	12
French rose-water	6
Essence of white rose	6
Glycerine of borax	4
Prepared talc	4
Oxide of zinc	2
Tincture of benzoin	2

Mix all the ingredients well together.

Perspirol.

For Excessive Perspiration of Hands and Feet.

	Oz.
Prepared Venetian talc	20
Powdered orris-root	10
Oxide of zinc	5
Powdered tartaric acid	5
Powdered boric acid	5
Salicylic acid	2½
Menthol	¼
Oil of eucalyptus	¼

Make a fine powder, to be applied to the hands and feet, or to be sprinkled inside the gloves or stockings.

Pharmaceutical Society of Great Britain.

COUNCIL MEETING.

A SPECIAL meeting of the Council was held on Wednesday at noon. Present: Mr. Walter Hills (President) in the chair; Messrs. John Harrison (Vice-President), Allen, Atkins, Bottle, Carteighe, Hampson, Martindale, and Savory.

The PRESIDENT explained that the meeting had been called for the purpose of reading the amended by-laws a second time, and he formally moved that the by-laws should be read a second time and confirmed, which the VICE-PRESIDENT seconded. This brief report would have ended there, as the President said this was all the business, but

Mr. BOTTLE, rising, said: I move, sir, that the by-laws be taken as read, then confirmed.

The PRESIDENT: You wish this motion amended?

Mr. BOTTLE: Only so far as taking out the word confirmed. You move that they be read; I move that they be taken as read.

Some conversation ensued upon the formality of this motion, which Mr. MARTINDALE seconded; and ultimately, on the suggestion of the VICE-PRESIDENT, it was agreed to put Mr. Bottle's motion first and the President's second, in which form they were passed simultaneously and unanimously.

NORTH BRITISH BRANCH.

A MEETING of the Executive of the North British Branch was held in the Society's house on Friday, April 23. Mr. J. L. Ewing (Chairman) presiding. There was a large attendance. Apologies for absence were intimated from Mr. Davidson (Montrose), and Mr. Kermath (St. Andrews).

GENERAL PURPOSES COMMITTEE.

Mr. J. R. HILL (Assistant-Secretary) read the minutes of two meetings of the General Purposes Committee held since the last meeting of the Executive. From these it appeared that the sum of 45*l.* had been paid to Mrs. Balfour for the Scoresby-Jackson Museum, as formerly agreed, that sum being made up of 27*l.* 16*s.* received in subscriptions from members, and 17*l.* 4*s.* from the Council of the Society; also that the museum had come into the custody of the Society. It was also reported that the museum of the Royal College of Physicians was in course of removal to the Society's house.

ANNUAL REPORT TO THE COUNCIL.

The Executive having gone into Committee, the ASSISTANT-SECRETARY read the annual report to the Council, which detailed the work of the branch during the past year. It took special notice of the large increase in the number of candidates coming forward at the quarterly examinations. Some conversation took place on the probable causes for the increase in the number of failures during the past year, the percentage of passes in the Major examination being 25, as compared with 44 last year, and in the Minor examination 33, as compared with 40. The report was adopted.

MEMBERSHIP OF THE SOCIETY.

Mr. W. L. CURRIE (Glasgow), Vice-Chairman of the branch, proposed the following motion, of which he had given notice:—

> That all chemists and druggists should be eligible as members of the Pharmaceutical Society, and that steps should be taken to secure a short amendment Act to effect this object.

Mr. Currie said he had been induced to bring forward this proposal now simply because he looked upon it as a matter of justice, and because the sooner some such reform was carried out the sooner would the Pharmaceutical Society receive that amount of general support which was necessary to obtain success in matters which might be brought forward. According to the figures given by the Registrar for last year, there were 15,166 individuals on the register, of whom only 4,825 belonged to the Society, and of these 3,841 were in business. Of pharmaceutical chemists there were 2,253 on the register, 1,584 of whom were members of the Society—a fair proportion, perhaps, but it should be better. There were 12,913 chemists and druggists on the register, but only 3,241 were connected with the Society. Why was it that since the Minor was recognised as the legal qualification those who possessed it did not enjoy the privileges of the Society from which they obtained their diploma? The Major graduate was no better in the eye of the law. He contributed no larger annual or life fee to the funds of the Society, but because he had obtained a higher-grade certificate (as it were) he alone was entitled to membership and its privileges. Democratic ideas were on the increase, and the Uitlanders must be recognised as a power to be dealt with. Until the privileges of the Society were open to every chemist and druggist the Society would drag its weary way instead of advancing. He had heard it stated that by admitting chemists and druggists as members the pharmaceutical chemist would not obtain that reward for his extra study to which he was entitled. He had very little regard for individuals who held such ideas. He did not see that the position of the pharmaceutical chemist would be interfered with one iota. The Minor qualification requirements were now almost equal to—if, indeed, they did not exceed—the Major requirements of many years ago. The late Mr. Sandford, in contending for this very same object in 1867, said the Minor examination would not always remain as it was—it would be progressive—and would yet be a qualification deserving of recognition of full membership of the Pharmaceutical Society. Such time, he submitted, had now arrived. A short amendment Act, dealing with this matter alone, not touching other questions at all, no matter how desirable, would, he thought, be the best way to secure this object. They might say such a question was not worth the candle. He was of a different mind. He had great faith in small things to begin with, and if the Pharmaceutical Council could only successfully carry such a Bill through, it would clear the way for great things afterwards.

Mr. LUNAN seconded the motion. He asked Mr. Currie if he would make men members of the Society whether they were in business or not, or immediately on paying their subscription.

Mr. CURRIE said every individual who held a diploma should be a member on paying the subscription.

Mr. STORRAR (Kirkcaldy) said Mr. Currie's motion was not entirely new. It had been before the Society for some time, and was practically adopted by the Council, although they had yet taken no action. Up till now he had been rather against the proposal. His position was changed partly on account of Mr. Currie's eloquence, and partly, he believed, on account of his being in a minority of one in the Council. He was mainly convinced by Mr. Currie's arguments in this way—that they had not the slightest weight with him; in fact, he was more convinced by what he had not said than by what he had said. He could not see how the best men who at present could become members of the Society, but who declined to do so, would be induced by the very empty honour of being a member instead of an associate in business. The argument in favour of the proposal to his mind was that it would give them on the Council and elsewhere the benefit of men who were not eligible for the Council at present. He never had any objection to that, but he objected to these suggestions of the proposals being taken up piecemeal. They wanted many amendments of the Pharmacy Act, but their policy for many years had been purely a stop-gap policy. He did not think it worth while going to Parliament for the sole purpose of making associates in business members of the Society. The policy of the Society should be to formulate in a proper Bill all the reforms they thought necessary. But Mr. Currie's proposal seemed to be the policy of the large majority of the Society and the Council, and he was perfectly willing to go in with it. (Applause.)

Mr. KERR (Dundee) believed that if Mr. Currie's proposal were carried into effect it would greatly strengthen the Society.

Mr. DAVID MCLAREN (Edinburgh) said if they went to Parliament unanimous on this question a short Bill would not cost a single penny. The Government would accept it and take it up. If they introduced contentious matter into the Bill they would be sure to get opposition, both in and outside the House, and it would possibly ruin the whole Bill. But if they got a united body of chemists and druggists t

go forward by-and-by with the other amendments proposed, they would not be long in carrying a new and good Act.

Mr. Moir (Glasgow) was in favour of going to Parliament for this amendment of the Act only if it would not shut the door against them going back for more needed reforms in the near future. If they did go on with this proposal he would like added to it a provision for divisional representation in all districts.

Mr. Coull (Edinburgh) proposed that the last part of the motion, to the effect of going to Parliament for a short amendment Act, should be dropped.

Mr. C. F. Henry (Edinburgh) thought it a strong point in the motion that it proposed to put only one thing into the Bill. If they put two or three things into it they would rouse opposition.

Mr. Johnston (Aberdeen) also supported the motion.

The Chairman also cordially supported the motion. He regarded it as a matter of justice to the chemist and druggist associates who were in business, and thought it was right that that large body should be represented on the Council. He thought there should be a short Act, and until it was passed he did not think the Society could be put on a proper basis.

Mr. Currie replied, and the motion was adopted unanimously.

Election of Executive.

On the motion of the Chairman, it was agreed that the next election of the Executive should take place on Friday, June 18, the Chairman and Vice-Chairman to be scrutineers of the papers, with power to add to their number.

The Conference Arrangements.

At the request of the Chairman, Mr. McAdam (Glasgow) reported the arrangements for the Pharmaceutical Conference, which takes place at Glasgow in August next. He stated that on the Monday, as usual, the President would receive the members in the Corporation Gallery, which had been granted by the Corporation. The rooms were very near the Charing Cross Hotel, which would be the headquarters of the Conference. On Tuesday morning their first meeting would take place in a large hall. The Lord Provost would welcome the members, after which papers would be read, and the same afternoon there would be an excursion to Loch Lomond. The second meeting of the Conference would take place on Wednesday morning. In the forenoon the ladies would have a drive through the city, and public places would be visited. In the afternoon the members would drive in brakes to inspect the waterworks, and drive back in time for a smoking-concert, to be held in the hotel. On Thursday they would go by train to Greenock at 9 o'clock, and take the steamer *Glen Sannox*—the best steamer on the Clyde—for the purpose, and cross to Hunter's Quay, pass Dunoon and Innellan to Rothesay, sail up the Kyles of Bute, round by the other side of the island, and up Loch Long to Arrochar. They would land there for an hour, and have their photograph taken. They would dine on the way back, and perhaps have time to go up the Gareloch, and be back at Greenock in time to take train for Glasgow. They would have a jolly good time of it.

The Chairman said he expected they would have a very good time. He hoped they would have a very large attendance of pharmacists from south of the Tweed.

Mosquitoes and Pennyroyal.—The British Consul at Naples declares that the essence of *Mentha Pulegium* applied sparingly to the face and hands on going to bed will prevent mosquitoes from biting.

Medical Publications in the United States.—One hundred and nineteen new books on medical science anp hygiene, and forty-eight new editions of such works, were published in the United States last year. This was a large increase on 1895, when the figures were: New books, 141; new editions, 22. Books on medical science occupy the fourteenth place in a graduated list, divided into nineteen categories, of books published in the States. "Fiction" heads the list; "Humour and Satire" are at the bottom. Many people will be relieved to hear that the production of what the American book-classifier calls "Humour and Satire" is falling off. At its present rate of decrease it will not survive the century.

Legal Reports.

A CHEMICAL-MERCHANT CHARGED UNDER THE BANKRUPTCY ACT.

At Manchester City Police Court on April 22 and 23, before Mr. F. J. Headlam, Stipendiary Magistrate, George William Beswick, of Church Villa, Northenden, near Manchester, was charged, under seventeen informations, with offences under the Bankruptcy Act, 1869. Mr. Hart conducted the prosecution on behalf of the Treasury, and Mr. Ambrose Jones appeared for the defence.

Mr. Hart said the bankrupt was charged under subsections 14 and 15 of section 11 of the Act with obtaining goods (within four months of the filing of his bankruptcy petition) under the false pretence of carrying on trade, he not having paid for the goods, and with disposing of goods unpaid for otherwise than in the ordinary way of trade. There was a third charge of obtaining credit by false pretences, under subsection 1 of section 13 of the Act. The defendant carried on business in Manchester as a cloth-merchant, and in Liverpool as an importer of minerals, chemicals, and colours, and it was in respect of the latter business that the charges with reference to his trading transactions were brought. The debtor had admitted he was insolvent in 1894.

The Deputy Official Receiver at Manchester proved the bankruptcy, and gave particulars of the accounts filed; and Mr. Louis J. Moentack, of Antwerp, proved sales of dextrine to the defendant, who duly accepted a bill for these consignments. A representative of Messrs. Morris Ashby (Limited), London, zinc-merchants, proved a sale of zinc oxide to the defendant, and other witnesses proved the sale of these goods by the defendant at a price which was less than the original cost. The manager of the Mercantile Bank of Lancashire (Limited) said that in consequence of an application by the defendant for an increase in his overdraft from 300*l.* to 800*l.*, he had requested the defendant to furnish his Board with a balance-sheet showing his financial condition, and that it was on the strength of this balance-sheet (which the witness produced) that the bank increased his overdraft from 300*l.* to 700*l.*, taking a guarantee from a friend of the bankrupt for 300*l.* The bankrupt had admitted, in the course of the bankruptcy proceedings, that his liabilities at that time were nearly 2,600*l.*, whereas he disclosed them as only 105*l.* in the balance-sheet. The bankrupt further admitted that a second balance-sheet he had furnished the bank with was equally false. Mr. Oswald Cocks, chartered accountant, the trustee of the bankrupt's estate, said the bankrupt's liabilities would exceed 6,000*l.*, while the assets had only realised 400*l.* The bankrupt bought, on June 17, 175 bags of dextrine from Moentack for 192*l.* 7*s.* 10*d.*, which he sold for 177*l.* 15*s.* 5*d.*, and in addition the defendant had to pay 13*l.* 4*s.* 10*d.* carriage, &c. On June 30 he purchased 200 bags of dextrine from Moentack for 219*l.* 15*s.* 8*d.*, which he sold for 202*l.* 0*s.* 3*d.*, and in addition to this loss there would be 15*l.* 6*s.* to be added for freight. On July 13 Beswick bought 100 bags of dextrine for 109*l.* 17*s.* 10*d.* from Moentack and sold them for 100*l.* 11*s.* 11*d.* The freight and carriage paid by Beswick on these amounted to 7*l.* 12*s.* 1*d.* On June 19 the defendant purchased 45 barrels of zinc oxide from Morris Ashby (Limited). Thirty of these barrels, which cost 51*l.* 17*s.* 1*d.*, were sold for 41*l.* 11*s.* 7*d.*; ten of these barrels, which cost net 35*l.* 10*s.* 5*d.*, were sold by Beswick for 29*l.* 4*s.* 8*d.*; two of the remaining barrels, which cost net 6*l.* 18*s.* 11*d.*, were sold for 5*l.* 18*s.* 4*d.*

Mr. Ambrose Jones, on behalf of the defendant, reserved his defence.

Mr. Headlam committed the defendant to the City Sessions, agreeing to accept bail in two sureties for 100*l.* each.

THE SOCIETY OF PUBLIC ANALYSTS *v.* SOMERSET HOUSE.

At the North London Police Court on Monday, before Mr. D'Eyncourt, there appeared to be a commencement of hostilities between eminent analytical authorities, of which more will be heard. The case before the Court was a simple

one of alleged milk-adulteration—at the most only 6 per cent. of added water. On the one side Mr. Otto Hehner, Dr. Bernard Dyer, Mr. Leo Taylor, and Mr. Edward John Bevan maintained that the added water in the milk in question varied between 5 and 7 per cent., while the Somerset House chemists declared that there was no distinct evidence of any added water at all. The Hackney Vestry were the prosecutors, and Mr. H. T. Tiddeman, their solicitor, said that, anticipating (by past experience) this certificate from Somerset House, he had fortified himself with the scientific evidence mentioned. Mr. Leo Taylor, F.I.C., member of the Society of Public Analysts and of other learned societies, said he, as public analyst of Hackney, first analysed the sample of milk in question. He took about 1 oz. of the milk from the 8-oz. bottle in which it was handed him, and then added a drop or two of preservative (formalin), and resealed the bottle—as was his custom in the event of dispute. The drop or two of preservative prevented decomposition, and in no way detracted from the constituents of the milk. When he heard that another portion of the same sample taken by the analyst had been sent to Somerset House he took the remainder of his sample to Mr. Otto Hehner, with the request that that gentleman would analyse a portion, reseal, and pass the bottle on to Dr. Bernard Dyer and Mr. E. J. Bevan. In cross-examination by Mr. Young, the witness said he did not know what were the constituents of the preservative, but he only added two drops at the most. That, at any rate, would make no appreciable difference in the solids, fats, &c., of the milk. He applied two methods, Adams's and Bean's, and found that his sample contained not less than 6 per cent. of added water. He expected an opposite view from Somerset House.

The Magistrate: Why did you expect it? Mr. Taylor: Because there have been complaints over and over again from all parts of the country that the Somerset House analyses are different to those of the members of the Society of Public Analysts.

Mr. Young: You get out figures in order to get convictions? Mr. Taylor: I do not. It makes no difference to me whether or not there is a conviction.

You do not agree with the Somerset House analysts?—Their methods of analysis are different to ours.

Mr. Otto Hehner was the next witness. He said he was one of the examiners for the Institute of Chemistry, a past President of the Society of Public Analysts, late Vice-President of the Institute of Chemistry, and a member of the Council of the Chemical Society. He was also public analyst for several important places—Nottingham, West Sussex, Isle of Wight, and Ryde. For the past twenty years he had had special experience with regard to milk-analysis. The sample of milk he received from Mr. Leo Taylor was perfectly fluid and in good preservation. The analysis showed the presence of two separate substances used as preservatives—boracic acid and formaline.

Mr. Young: What is formaline?—It is a 40-per-cent. solution of formaldehyde in 60 per cent. of water. I concluded that the milk was not genuine; that it was a mixture of milk and water—at least 3 per cent. of added water. In reply to further questions, the witness said he had had experience of the Somerset House milk-tests. From what he had gathered by observation and replies to questions, he would say that theirs was not a correct test, according to the ideas of the Society of Public Analysts.

The Magistrate said it appeared that Somerset House, and not Mr. Young's client, was at present on trial; and it would be as well, if possible, to get the gentlemen from Somerset House who took part in the analysis of this sample.

Mr. Hehner added, with regard to the Somerset House method of analysis, that he would put it as mildly as possible, and say——

The Magistrate: Never mind the mildness; put it truthfully.

Mr. Hehner: I have been present at nearly every case of importance at Somerset House.

Mr. Young: Not of milk?—No.

How did you get your information?—As I told you, from observation and conversation.

The Magistrate: They might not have told you the truth.

Mr. Hehner: It is well known that there has been very little agreement between Somerset House and the Society of Public Analysts during the past twenty years. I gave evidence before the Royal Commission on the Food and Drugs Act, and one of the recommendations of that Commission was that Somerset House be done away with, so far as an appeal in the case of analysis was concerned.

Mr. Young: You have had experience of your certificate not being acted upon by the Magistrate?—Yes; and otherwise. (Laughter.)

And you do not consider yourself infallible?—No.

Mr. Tiddeman: But Somerset House does.

Mr. Bernard Dyer, President of the Society of Public Analysts, D.Sc., F.I.C., and public analyst for Leicestershire and Rutland, and Truro, said he had analysed many thousands of samples of milk. In the one in question he found at least 6 per cent. of added water, as well as the preservative substances already alluded to. The formaline would cause an infinitesimal increase in the solid matter. In his judgment this would not be material in any sense to the general issue.

Cross-examined: I made my examination of the sample immediately on receipt, and then forwarded the remainder to Mr. Bevan as requested. It would be impossible to properly analyse the Somerset House sample after a lapse of nearly four weeks, as was the case with this sample. Decomposition would have set in, and it would be more a matter of guess than anything else. He was now speaking colloquially.

Mr. Young: But there was boracic acid in it before.—That would only keep it a few days.

In reply to the Magistrate, the witness said the analysis was carried on on the exhaustive process. They ascertained from the proportions of solids and fats, and argued from what remained to make up the 100. A certain standard was taken to represent the solids, and in this case it worked out at 94; therefore the remainder would be water.

Mr. Young drew attention to the fact of how this sample had been opened and reopened, and carted about from place to place, whilst that of Somerset House was never opened from the time it was sealed by the inspector until it got to the Government laboratory.

Mr. Edward John Bevan, F.I.C., was also called for the prosecution. He said he was honorary secretary to the Society of Public Analysts, and public analyst to the Middlesex County Council. The sample in question, when it reached him, was in sufficiently good preservation for his purpose, though it had commenced to change. He had had special experience in milk-analysis, testing on an average 1,200 samples in twelve months. He came to the conclusion that this sample contained 7 per cent. of added water. The public analyst, added the witness, in reply to a question from Mr. Tiddeman, had to certify that the milk had not undergone any change, whilst Somerset House, so far as he knew, was not called upon to make such a declaration. He knew from hearsay all about the methods of milk-analysis at Somerset House, and in his opinion they were altogether unreliable.

The Magistrate agreed that this was an important case to the public, and thought that the prosecution had shown a case for the defence to answer.

Mr. Young thought that, with only 6 per cent. adulteration, it was hard that his client should have to bear the cost. However, he would take an adjournment, and call the analysts from Somerset House. Adjourned accordingly.

SALE OF FOOD AND DRUGS ACT.

WATER IN GLYCERINE.

AT Stoke County Petty Sessions, on April 23, Mr. Leonard Lamton, of Stoke, was proceeded against for selling glycerine which was found, on analysis, to contain 21 per cent. of water. Inspector Knight, who prosecuted, said the glycerine was bought in penny bottles. He stated that glycerine was sold by grocers at a much higher rate than when the article was purchased at a chemist's shop. He also stated that he had taken a number of samples of glycerine from chemists, and in none of these cases had the samples been found to be adulterated. The Stipendiary Magistrate (Mr. Harold Wright), in fining defendant 10*s.* and costs, informed him that he could recover the amount of the penalty from the wholesale dealer who supplied the article to him.

On April 26, at the Rugeley Petty Sessions, Robert Myatt, grocer, was summoned for selling adulterated glycerine.

Two assistant inspectors purchased glycerine at defendant's shop in penny bottles, which the county analyst found to contain 45 per cent of glucose syrup, a material of about ten times less value. Mr. Armishaw, who defended, urged that his client was not liable, as he had bought the glycerine of Mr. Tingle, of Lichfield, and had sold the parcel of one dozen bottles unopened. The invoice constituted a warranty. The Bench inflicted a fine of 1*s.* and 30*s.* costs.

COUNTY COURT CASE.

A Veterinary Surgeon's Account.

At the Brentwood County Court, on April 23, Messrs. Hewlett & Son, wholesale druggists, Shoreditch, sued Henry Lawrence, veterinary surgeon, Shenfield Road, Brentwood, for 3*l.* 3*s.* 4*d.*, for goods supplied. The defendant did not attend, though he had been subpœnaed and given 1*s.* conduct-money. His Honour Judge Paterson therefore fined him 1*l.* for not attending, and adjourned the hearing of the case until next court.

"SOLIO" AS A TRADE-MARK.

In the Court of Appeal on Thursday, before Lords Justices Lindley, Lopes, and Rigby, Mr. Moulton, Q.C. (with whom was Mr. Kurley), appeared on behalf of the Eastman's Photographic Materials Company (Limited) in support of an appeal from a decision of Mr. Justice Kekewich, who had refused to grant an application for the registration of the word "Solio" as a trade-mark applied to photographic paper. Mr. Moulton argued that the Judge was wrong in coming to the conclusion that because "sol" formed part of the word in question it was therefore descriptive of the character and quality of the goods and incapable of registration. It was said against them that "sol" being the source of light, and forming part of the word which had reference to something which was acted upon by light, "Solio" was in that sense descriptive. He considered this an erroneous conclusion "Solio" as a word had no meaning whatever, and evidence showed simply a corruption of "Soho."

Sir Richard Webster said this case was of more importance than the word "Solio" seemed to suggest. What the Court was asked to do was to overrule the discretion of the Registrar with reference to the practice which had existed for a very long time. He would ask the Court to hesitate before they came to the conclusion to reverse this practice of the Patent Office. These cases must always be fought upon border-line words, and that was one of the difficulties they had to contend with. There could be no lack of suitable words, and the invariable practice of the office had been to refuse to allow the word "sol" to be used in connection with photography as a trade-mark.

Mr. Moulton having replied, their Lordships came to the conclusion that, granted the word "Solio" was newly coined, and therefore an invented word, it was too much to say it had no reference to the character and quality of the goods which in this case were photographic paper, and the appeal would therefore be dismissed with costs.

CALIFORNIAN FIG SYRUP COMPANY *v.* TAYLOR'S DRUG COMPANY (LIMITED).

A report of this case, with Mr. Justice Kekewich's judgment in full, is given in the *Patent Journal* of April 28.

Bankruptcies and Failures.

Re Ada Jane Williams (formerly trading as Williams & Co.), Prescot, Chemist and Grocer.

This debtor applied for her discharge at the Liverpool Bankruptcy Court on April 23. The receiving order was made in September, 1896, the liabilities being returned at 505*l.* and assets 308*l.* 14*s.* 4*d.* Since then the trustee, Mr. Edmund M. Owen, had received proofs which increased the liabilities to 600*l.* The bankrupt stated that the business had been entirely managed by her husband, who was a fully qualified chemist, and she attributed her failure to his mismanagement. The Official Receiver had nothing to report against the bankrupt, and his Honour, after hearing Mr. Bird (for the bankrupt), suspended the discharge until 10*s.* in the pound has been paid.

Re Edward Samuel Balchin, Gosport, Chemist.

The summary of the debtor's statement of affairs shows gross liabilities amounting to 577*l.* 8*s.* 2*d.*, of which is expected to rank 506*l.* 11*s.* 7*d.* The assets comprised cash in hand, 14*s.* 7*d.*; cash with solicitor for costs of petition, 10*l.* 5*s.* 7*d.*; stock-in-trade (cost 50*l.*), estimated to produce 25*l.*; book-debts, good, 43*l.* 10*s.* 5*d.*; surplus from securities in the hands of creditors fully secured, 37*l.* 18*s.*, less preference claims, 33*l.* 14*s.* 7*d.*; net assets, 83*l.* 14*s.* The debtor alleges as the causes of failure want of capital, giving credit, and legal costs. It is stated in the Official Receiver's observations that the bankrupt commenced business in Gosport in July, 1889, at 83 High Street, and in August, 1892, moved into his present premises. He had no capital of his own, but borrowed 350*l.* from his relatives. This amount is included in the unsecured liabilities, but the claims have been withdrawn in favour of the ordinary trade creditors. The bankrupt has kept no system of accounts, the only books in use being a day-book and debtors' ledger. He admits that he has been insolvent from the outset, and has made arrangements with some of his creditors since he commenced trading at Gosport.

Deed of Arrangement.

Parkinson, William, 17 Lovat Road, Preston, patent-medicine vendor. Trustee, James Todd, 3 Winckley Square, Preston, chartered accountant. Dated, April 14; filed, April 21. Liabilities unsecured, 624*l.* 13*s.* 9*d.*; estimated net assets, 230*l.* 10*s.* 8*d.* The following are scheduled as creditors:—

	£	s.	d.
Ayrton & Saunders, Liverpool	24	0	0
Blezard, T., Preston	15	0	0
Clay, Dod & Co., Liverpool	46	0	0
Fazackerley, Mrs., Blackburn	41	0	0
Oldfield, Pattinson & Co., Manchester	18	0	0
Parkinson, Mrs., Blackburn	262	0	0
Parkinson, Mrs., Preston	90	0	0
Thompson, J. (Limited), Liverpool	24	0	0

Gazette.

PARTNERSHIPS DISSOLVED.

Garrett, T. P., and **Atkins, A. E.,** chemists, druggists, oil and colour merchants, and opticians, Newport, under the style of Garrett & Atkins.

Judd, W., and **Manners, A.,** chemist and medical valuers and transfer agents, Cannon Street, E.C., under the style of Judd & Manners.

Ling, M. E., and **Richardson, J. C. R.,** medical practitioners, Saxmundham, under the style of Ling & Richardson.

THE BANKRUPTCY ACTS, 1883 AND 1890.

Adjudications.

Halliwell, Alexander Bold, Huddersfield, Dewsbury, and Halifax, dentist.

Wilson, Samuel, St. Helen's, chemist and druggist.

Order Made on Application for Discharge.

Lockyer, Conrad William, St. Julian's Farm Road, West Norwood, S.W., physician and surgeon—discharge granted conditionally.

Adjudication Annulled.

Joel, Isaac B., Drapers' Gardens, E.C., and Devonshire Terrace, Bayswater, W., promoter of the Automatic Photographic Company (Limited) and Foreign and Colonial Automatic Photographic Company (Limited).

Trade-Marks Applied for.

(*From the "Trade Marks Journal," April* 21, 1897.)

"RAMASIN"; for a chemical substance for destroying vermin in greenhouses, &c. By E. G. Hughes, 38 Victoria Street, Manchester, operative chemist. 203,170.

"LODE STONE" and landscape device, contained in circle, for all goods in classes 2 and 3. By Bryce & Co., 23 St. Mary Axe, London, E.C., wholesale and export druggists. 203,457. Essential particular: the device and word "Lode Stone."

Facsimile signature of applicant; for medicines for human use. By Henry Allison, 94 High Street, Lincoln, chemist and druggist. 202,094.

Crest and motto, surrounded by name and address of applicant; for an external application (medicated) for human use. By G. P. Sargent, Albert Cottage, New Barnet, proprietary article vendor. 202,923. Essential particular: the device.

Outline of circle containing bull's-eye lantern shining on pills, and applicant's monogram; for pills for human use. By E. Birkbeck, 29 Trafford Road, Salford, estate agent. 202,374. Essential particular: the device.

Device of floral label with scale of doses, directions, &c.; for a medicine for human use. By G. W. Thexton, 52 Main Street, Kirkby, Lonsdale, Westmoreland, chemist and druggist. 202,685. Essential particular: the label device.

New Companies and Company News.

EASTMAN KODAK COMPANY (LIMITED), and the KODAK COMPANY (LIMITED), each with a capital of 2,000*l.*, in 1*l.* shares. Objects: To carry on the business of photographic material and apparatus manufacturers, photographers, photograph dealers, &c. Registered without articles of association.

ARCHIBALD TURNER & CO. (LIMITED).—Capital 70,000*l.*, in 1*l.* shares. Objects: To acquire the business of Archibald Turner & Co., of Leicester, and to manufacture and deal in elastic and non-elastic cords and webs, and (*inter alia*) surgical webs and bandages. Richard Taylor is the sole director, with 2,000*l.* per annum.

RADIOTINT (LIMITED).—Capital 100,000*l.*, in 1*l.* shares. Objects: To enter into an agreement with John Ornstein, and to carry on the business of manufacturers of and dealers in coloured and other photographs, photographic apparatus, chemical compounds, &c., photographic artists, printers, publishers, chemists, druggists, drysalters, oil and colour men, &c.

PORTABLE LIME-LIGHT SYNDICATE (LIMITED), with a capital of 6,500*l.*, in 1*l.* shares, to acquire from John Addison certain inventions for improvements relating to the production of oxygen gas and apparatus therefor, and to manufacture and deal in oxygen and other gases, chemicals, photographic apparatus and materials, magic lanterns, &c. The first directors are Herbert J. Cubison, William Gosling, and John Addison.

A. J. WHITE (LIMITED), with a capital of 1,000,000*l.*, in 1*l.* shares (500,000 6*l.*-per-cent. cumulative preference), to acquire the business of a company of the same name, which was registered in 1884, to enter into an agreement for the purpose to manufacture, sell, and deal in "Mother Seigel's Soothing-syrup," "Mother Seigel's Operating-pills," "Mother Seigel's Soothing-plasters," "Mother Seigel's Pain King," "Seigel's Malt Cough-balsam," "Seigel's Throat-wafers," "Rosinweed Tar-mixture," and "Seigel's Ointment," and to carry on the business of chemists, druggists, chemical manufacturers, drysalters, patent-medicine manufacturers and dealers, &c. The first directors are Henry K. Packard (chairman and managing director), Alderman Alf Cooke, J.P., Milton Bartholomew, Thomas Platt, Charles Birchall, Alfred Loader, and Benjamin B. Nixon. Qualification, 2,000 shares. Remuneration, 1,000*l.* per annum and a share in the profits, divisible. Registered office, 35 Farringdon Road, London, E.C.

HOCKLEY CHEMICAL COMPANY (LIMITED). — Capital 10,000*l.*, in 1*l.* shares, to take over as a going concern the business carried on by George Tubbs, Richard Griffin, Edgar N. Brown, and Joseph Hands at 1 Hockley Hill, and 64 Vyse Street, Birmingham, under the style of "The Hockley Chemical Company," and to carry on the business of wholesale and retail drysalters, chemists, druggists, oil merchants, chemical manufacturers, hardware and fancy goods factors. The first subscribers (each with one share) are:—George Tubbs, drysalter, and Mrs. M. H. Tubbs, 85 Hamstead Road, Handsworth; Richard Griffin, 5 Louisa Place, Prescott Street, Birmingham, drysalter; E. N. Brown, 39 Pershore Road, Birmingham, drysalter; J Hands, 20 William Street, Lozells, Birmingham, drysalter; P. Galloway, 53 Hall Road, Handsworth, factor; Mrs. H. L. Griffin, 156 Soho Hill, Handsworth. The first directors are George Tubbs, Richard Griffin, Edgar N. Brown, and Joseph Hands.

A. J. WHITE & CO. (LIMITED).—We are informed that the shares in A. J. White (Limited) ("Mother Seigel's") have been fully applied for; but the directors state that they propose to look after the interests of the trade and consumers of the company's medicines.

THE BIRMINGHAM AMALGAMATION.—Our Birmingham correspondent informs us that the London syndicate which was lately prospecting in that city, with a view of amalgamating a number of chemists' businesses, has abandoned the project.

BOOTS (LIMITED).—At the Cutlers' Hall, Sheffield, on April 28, Messrs. Nicholson, Greaves, Barber & Hastings, in a sale of local investments, offered two lots of ordinary shares in Boots (Limited). The first lot of 130 shares sold at 39*s.* each; the second lot of 250 shares realised 38*s.* 6*d.* each.

THE SANITAS COMPANY.—According to a letter in the *Financial News*, the directors of this company propose to treble the capital of the company and buy out the rights of the managing director at the price of 46,000 fully-paid shares. The reason for thus dividing the shares suggested by the directors is that it will reduce the nominal amount of the dividend, and as a result diminish the temptation to competition.

SINGLETON & COLE (LIMITED).—A prospectus of this company will be found among our advertisements this week. This company take over the business of the old company of the same name, as importers, manufacturers, and dealers in tobacco, cigars, cigarettes, snuffs, and tobacconists' sundries. They have been cultivating a trade with chemists of late, and many will remember the very useful price-list they inserted in our last Winter issue. The company own a freehold factory in Shrewsbury, and leasehold premises in Wolverhampton, Birmingham, and Walsall. These are stated to be equipped with all modern machinery and appliances, but as no valuation is given we presume these properties are fairly mortgaged for the 20,000*l.* debentures to which the assets of the company are subject. On a capital of 20,000*l.* the company, it appears, paid a dividend of 10 per cent. in 1896, and the directors believe they see their way to greatly increase the business by the introduction of increased capital. The prospectus does not indicate how much is to be paid to the old company for the goodwill of the business.

ARMY AND NAVY CO-OPERATIVE SOCIETY (LIMITED).—At the annual meeting of this society, held on Monday, Lord Ebury, the chairman, stated that for the first time in their history their sales had exceeded 3,000,000*l.*, being, in fact, 3,051,000*l.* After all deductions the outcome was a comparative additional net profit of 23,500*l.* A dividend of 200 per cent. on the original share capital was declared. It was stated that the Indian branch promised to be very prosperous. The Chairman asked the shareholders to agree in future to devote part of their profits to national, local, or such other charities as the directors might think best suited to be helpful to the 7,000 persons in the society's employ, and it was ultimately resolved "that, in order to celebrate the completion of the sixtieth year of the reign of her Majesty, and in memory thereof, this meeting is of opinion that in future

a portion not exceeding one-fiftieth part of the society's net profits should be devoted to objects of charity, and the shareholders now present request the directors to take such steps as will enable them to give effect to that expression."

Trade Notes.

Our telephonic correspondents will please note that our telephone number has been changed from 1852 to "Bank 352."

For Jubilee Illuminations "Pyramid" and "Fairy" lamps will be just the thing, and chemists should see that they get a share of the trade in them. Clarke's Pyramid and Fairy Light Company (Limited) make a special offer this week.

Messrs. Ross & Co., 111 New Bond Street, W., have issued an abridged list of their photographic lenses, cameras, &c. It contains full specifications of the more important lenses, and should be valuable to all who deal in photographic goods.

Mr. E. Merck's report for 1896 has been issued. It contains about 200 pages of notes dealing chiefly with the new chemicals which were introduced into medicine last year. The notes are carefully written, concise, and give all the chemical, physiological, and therapeutic data which medical and pharmaceutical practitioners require.

We understand that the classes which Mr. Lionel Laurence has conducted for Messrs. J. Raphael & Co., 51 Clerkenwell Road, E.C., have been very well attended, one being held almost every week. Chemists who have not so far taken advantage of them have yet the opportunity of becoming acquainted with fundamental principles of spectacle-fitting.

Beetham's Glycerine and Cucumber.—It will be observed from an announcement made elsewhere in this issue that Messrs. M. Beetham & Son, of Cheltenham, guarantee their glycerine and cucumber to be of such composition that, by selling it, retailers are not liable under the Sale of Food and Drugs Act or the Merchandise Marks Act. It contains good proportions of glycerine and a preparation of cucumber.

A Pamphlet on eucaine A, the new local anæsthetic, has just been published (in German) by E. Schering's successors, 170–171 Müllerstrasse, Berlin. It contains accounts of the chemical and physical properties of the drug, its physiological action, and, chiefly, the abstracts of published observations on its therapeusis. Those who can read German may obtain a copy of the pamphlet from the above address or from the company's agents, Messrs. A. & M. Zimmermann.

Compressed S.F. Rhubarb.—If there is anything likely to revive the good old-fashioned practice of nibbling a bit of rhubarb-root when the stomach is below par the compressed tablets, cubes, and sticks which Messrs. Stallman & Fulton, Dunster House, Mincing Lane, E.C., have introduced should do it. The pieces are made from picked rhubarb, and they look exactly like the trimmed product, but are more uniform and tempting, while the price is a mere fraction of the other.

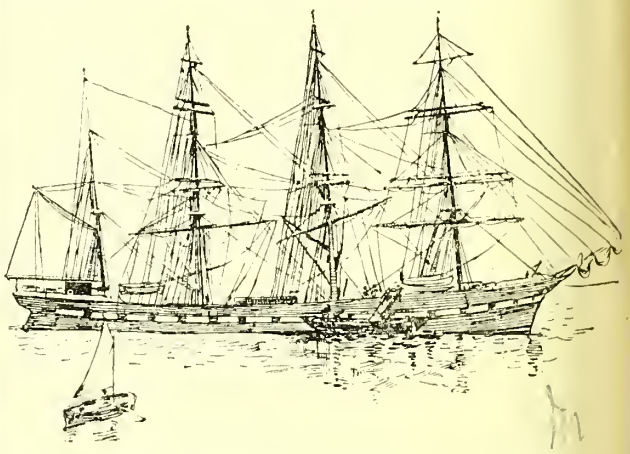
Mr. Wm. Poppelreuter, 54 Portland Street, Manchester, has published in English an abbreviation of Heinrich Haensel's April report on essential oils and fruit-essences. It is principally taken up with commercial information, which is in its way valuable, but there are included notes of a scientific character on oils of bay, celery, cloves, lavender, limes, paprika, sandalwood, and wormwood (Argentine). We observe an important declaration by the French Government that Haensel's terpeneless oil of lemon is not citral.

Help for the Wounded.—On Tuesday morning Messrs. S. Maw, Son & Thompson, Aldersgate Street, E.C., received an order for antiseptic dressings, bandages, &c., for the seat of war in Thessaly, and by 5 o'clock in the afternoon they had a large vanload of the goods delivered at Charing Cross Station in time to catch the Dover boat-train. This rapid despatch is an indication of the smartness which characterises the surgeons'-instrument department, as well as the other departments, of the Aldersgate Street business.

Messrs. Jas. Woolley, Sons & Co. (Limited), Manchester, have recently issued their photographic catalogue for the season. It contains 120 pages, and has in it all the leading apparatus and accessories required in photography. The prices are retail, and off these chemists receive a liberal discount. The firm make a feature of "Victoria" cameras and outfits, and have recently added a "Victoria" hand-camera, which seems to us to be special value. We notice that the Nos. 3 and 3A "Victoria" outfits include a Thornton-Pickard shutter, which, in the case of the half-plate (retail, 3*l.* 11*s.* 6*d.*), forms the front of the camera.

Moeller's Cod-liver Oil.—We have examined a sample of the new season's hydroxyl-free cod-liver oil manufactured by Mr. Peter Moeller, Snow Hill, E.C., which has been on the market for some time. It would be difficult to speak too highly of this oil; in odour it is, perhaps, not distinguishable from oils made by the old process, but the taste marks the advantage of the hydroxyl-free process, as it is scarcely possible to detect any fishy flavour, and were it not for its viscosity one could not tell it to be an oil. This fact, together with the absence of eructation (a characteristic which we have again tested and proved), has been so appreciated by medical men that the demand for the oil is, we are informed, growing steadily. The oil is put up in bottles only, each bottle and carton being marked with the season; and as Mr. Moeller changes old oil for new free of charge, chemists should see that they have the 1897–98 stock.

The four-masted iron sailing-vessel *Ross-shire*, here depicted, is one of a fleet that carries on trade between San Francisco and other ports of the Pacific Coast, North America, and London. The vessels go by Cape Horn, and thus accomplish one of the longest sailing voyages nowadays undertaken by any line of sailers. Most of the cascara sagrada imported into this country comes by this line. There is a theory that the great heat to which the bark



is exposed during the double crossing of the Equator "ripens" the cascara and increases its therapeutic activity. The *Ross-shire* arrived in London on March 17 (having left San Francisco about the middle of November) with a miscellaneous cargo, including 720 bags of cascara sagrada for Messrs. John Moss & Co., of Galen Works, Deptford. Our picture shows this consignment being unloaded.

Helfenberger Annalen, 1896.—This annual, which records the experimental work done in Mr. Eugen Dieterich's chemical and pharmaceutical factory in Helfenberg, near Dresden, has grown to very bulky proportions, and is now edited by Dr. Karl Dieterich. It is divided into three parts, the first containing reprints of research reports by Dr. Dieterich, or other original papers, many of which we have had occasion to refer to as they were published. The papers on balsams, resins, and gum-resins are of exceptional value, and throw much new light on the composition of these complex drugs. Besides these papers, there are in the first part the usual laboratory notes on crude and manufactured products, some of which we hope to refer to more in detail later on. The second part of the annual contains working descriptions of all the processes employed in determining the

purity of medicinal agents. This is of exceptional value to practical chemists. The third part is devoted to an account, by Mr. Hans Dieterich, of radiography, with illustrations of radiographs taken in the firm's Röntgen laboratory. The annual is of special interest to British and colonial chemists, in view of the fact that the Helfenberg products are now placed upon our home and colonial markets, as the annual really exhibits the care which is exercised in selecting raw materials and producing standard medicines of uniform potency and value. It is written in German.

Special Chemists' Sugar.—It is generally agreed amongst practical pharmacists that the sugars of commerce are, with few exceptions, unfitted for making medicinal preparations. Comparatively few of them are pure cane-sugar, and many are "faced" with some colouring matter, the latter being particularly the case with some loaf-sugars. The trouble arising from these and other causes has been so widely experienced in pharmacy that further comment upon them is unnecessary, our present purpose being to call attention to a special chemists' sugar which is offered by Messrs. Macfie & Sons, sugar-refiners, 34 Moorfields, Liverpool. We have recently examined it, and have formed a high opinion of its suitability for pharmaceutical purposes. It is a pure white sugar in fine granules, is perfectly dry, and dissolves readily in cold water to form a perfectly clear syrup—syrupus, B.P., can be made in this way, and most other syrups can be made with it without heat. The sugar does not contain any invert product, is absolutely free from "facing," and its solutions, acidified with mineral acids, remain perfectly odourless. Commercial sugars, in our experience, vary greatly in sweetness; this we find to be of high standard in that respect. We suggest that chemists who have reason to be dissatisfied should give this new brand a trial.

Personalities.

Mr. Owen A. Clark, chemist and druggist, of Abbeygate Street, Bury St. Edmunds, has been elected to fill a vacancy which has occurred on the Town Council.

Mr. John Wade, chemist and druggist, 174 Warwick Street, Pimlico, has been installed S.W. and W.M. elect of the Dalhousie Lodge, No. 860, of the Masonic order.

Mr. T. Hill, 95 Birchfield Road, Handsworth, Birmingham, has been appointed residential representative of Messrs. Ayrton & Saunders, of Liverpool, for the Birmingham district.

Mr. John H. Dalwood, chemist, Sherborne, Dorset, has been unanimously elected Chairman of the Urban District Council for the ensuing year, a position which entitles him to a seat on the Bench of County Magistrates.

The late Mr. Geo. Nind, pharmaceutical chemist, of Wandsworth, who died on January 26, leaves 2,000*l.* for the Pharmaceutical Society's Benevolent Fund, and his books and the diploma conferred on him by the Society to the Pharmaceutical Society.

Mr. Willmott, dispenser at King's College Hospital, was taken to the Royal Free Hospital, Gray's Inn Road, on Tuesday evening, suffering from the effects of opium-poisoning. He resides at 15 Hampton Street, Gray's Inn Road. Mr. Willmott has been under medical treatment for some time, and his landlady says he has recently been in the habit of taking drugs. Her opinion is that her boarder took an overdose of opium in mistake. On Wednesday Mr. Willmott was still in a dangerous condition.

Mr. David Hooper, F.C.S., F.I.C., has been appointed to the curatorship of the Economic and Art Sections of the Indian Museum, Calcutta. The post of quinologist to the Madras Government, which he has held for the past twelve and a half years, will be abolished on May 23. Mr. Hooper is an old School of Pharmacy man. He was there in the 1880 session, and took silver medals in botany, materia medica, and practical chemistry. After passing the Major, he took the Pereira medal. He then went to Messrs. Southall Brothers and Barclay's laboratories in Birmingham, and while there entered his name for the Madras quinologist appointment, and got it. He has done good work in India, has published many papers, and was largely responsible for the last edition of "Pharmacographia Indica."

Marriages.

Carpenter—Flanders.—On April 17, at St. George's Church, Deal, Kent, Mr. J. E. Carpenter, chemist and druggist, Sandwich, to Miss Sarah Jessie Flanders, youngest daughter of Mr. Smith Flanders, draper, High Street, Deal.

Clear—Tye.—On April 19, at Doddridge Church, Mr. Henry W. Clear, chemist and druggist, Belgrave Gate, Leicester, to Miss Emily Tye, daughter of Mr. William Tye, of Gold Street, Doddridge.

Gilbert — Moran.—On April 21, at the Methodist Church, Westport, Co. Mayo, by the Rev. Thomas Moran, father of the bride, W. R. S. Gilbert, L.P.S.I., to Jane Rebecca Moran, Westport.

Manks—Small.—On April 20, at Holy Trinity Church, Bournemouth, by the Rev. E. Francis W. Eliot, James W. Manks, of F. Schutze & Co., Aldersgate Street, London, to Henrietta Louisa (Cissy), second daughter of Mr. James Small, of Bournemouth.

Golden Wedding.

On the 27th inst., at Mansion House Chapel, Camberwell, by the Rev. John Burnett, William Edwards, Esq., of Denmark Hill, to Sophia Stewart, daughter of the late David Dykes, Esq., of Portland Place, Camberwell (*Times*, April 28, 1847).

The Mr. William Edwards of the above announcement is the highly-respected senior partner in the firm of W. Edwards & Son, wholesale patent-medicine dealers, of 157 Queen Victoria Street. Mr. Edwards has nearly completed his 78th year, and has been engaged in business over sixty years. He was, in fact, born at 66 St. Paul's Churchyard, where seventy-eight years ago his father was carrying on the business to which he eventually succeeded. The golden wedding was celebrated at Mr. Edwards's house at Tunbridge Wells on Tuesday last, the members of his family and some near relatives gathering to congratulate him on the occasion.

Deaths.

Armitage.—On April 19, Mary Hannah, wife of Nathaniel Armitage, chemist and druggist, 114 Tong Road, Armley, Leeds. Aged 49.

Cawdell.—On April 14, Mr. George Cawdell, chemist and druggist, Luton. Aged 71.

Earee.—On April 8, Mr. Thomas Earee, pharmaceutical chemist, Staines. Aged 77.

Gratton.—On April 17, Edith Annie, the beloved wife of Mr. George E. Gratton, chemist and druggist, of Blaenau Festiniog and Rhyl. Aged 25.

Laverack.—On April 18, at the Mount, Malton, Yorks, Lucy, the wife of Mr. W. H. Laverack, chemist and druggist.

Jahns.—The death is reported of Mr. Ernest Jahns, a leading Berlin apotheker, who was a member of the commission who edited the last edition of the German "Pharmacopœia." He was 53 years old.

Rowand.—On April 23, at Paisley, Mr. Robert Rowand, senior partner in the firm of Rowand & Co., wholesale druggists, Vauxhall Road, Liverpool. Mr. Rowand was in his 47th year, and had taken an active interest in the Volunteer movement and in certain local institutions.

West.—On Good Friday, at Bamford, Mr. John Ward West, chemist and druggist, aged 66. Deceased on April 10, finding himself falling downstairs, jumped to the bottom. He afterwards complained of pain in the hip, but continued to fulfil his duties as sub-postmaster at Bamford. He subsequently became worse, and died from heart-disease, which was probably accelerated by the fall. An inquest was rendered necessary, and a verdict to the effect that death was due to heart-disease was returned. Mr. West, who was highly respected in the town and district, had resided at Bamford for twenty-two years, during which time he had acted as sub-postmaster.

More about the By-laws.

LIVERPOOL CHEMISTS.

At a meeting of the Liverpool Chemists' Assistants' Association, held on Wednesday, April 28—the President, Mr. A. C. Abraham, F.C.S., in the chair—Dr. C. Symes introduced the question of the proposed new by-laws. He said that with regard to the alteration of the Preliminary examination scarcely a dissentient voice had been raised. The Society had decided to abandon the "plucking fees," and he was convinced this was a good move. He mentioned this because it had been alleged that the Society merely wanted to make money, and this was not the case. The opposition to the ten-guinea fee was not great—that is to say, not extensive; but, as everyone knew, a determined opposition could upset a great matter however good it might be. Those who contested the proposal were making statements which were a little contradictory. They said that a few years ago the Society made an increase of 2*l.* 2*s.* on the Minor fee. But, as a matter of fact, it was merely a re-arrangement of the fees, by which students were encouraged to go on to the Major examination. The arrangement had the effect of increasing the finances, but had not increased the number of Major men as was hoped. If the proposal were merely a scheme for getting funds, he should oppose it. The Society was not a poor one. Its property was worth 30,000*l.*, as certified by the auditors, not taking into account the *Pharmaceutical Journal*. The Society's expenses had been increasing largely since the passing of the Act. It had larger duties to perform; hence it needed more money. At the same time, the Society was perfectly solvent, and its needs were not caused by the expenditure on the *Pharmaceutical Journal*. Some years ago that periodical had been severely condemned by the members, and the Council decided, after consideration, to improve it at some expense. He would say that the spirit of the Council was never, and was not now, to enter into competition with any other journal. They determined to make their journal worthy of the Society, and spend money. The so-called loss on the *Journal* in 1895 was 3,500*l.*, but when it was remembered that some five or six thousand persons received it gratuitously, it would be seen that the amount was not a loss, but rather a gain. In 1896, they would be glad to hear, the *Journal* cost less than in 1895, and this year he hoped it would cost four or five thousand [!] less still, so that as the years went on the *Journal* would become a valuable property. Whatever the cost, no one would like to see it revert to the old form. He supposed that the persons affected by the proposed change would not be those who had passed their examinations, and those who would not pass their examinations before the end of next year, he thought, would place a greater value on the qualification, and would be less willing to join the army of "cutters" and sell their brains for the miserable sums they seemed willing to do it for now. The public would be benefited indirectly by the improved standard. It had been said that with the increased fee there would be increased severity in the Minor examination. In a recent leader in the *C. & D.* this point had been raised. He personally considered that the examination was already severe enough, and he would resist any attempt to increase its severity. He would like the examiners, however, to find out whether a man was equal to the emergencies of his daily duties in business—in short, make the examination more practical than it was. He contended that the work of the Society was mainly administrative, and quoted figures from the financial statements to show that the members had contributed largely to this head. In his opinion, the museum, library, laboratories, and school of pharmacy were not of particular, but general—nay, national—value, and money spent on them contributed to the benefit of not only every chemist and druggist, but of the public at large.

The President said that for many years chemists had received the support of the Society, which had been at great expense for prosecutions, &c., and even now proceedings in Scotland were conducted at a great loss. On the broad principle, therefore, that those who had not joined the Society had been receiving value for which they had not paid, he thought the increase in the fees was perfectly justified. As to the *Pharmaceutical Journal*, if it only cost 8*s.* per member, then if it were estimated to be worth 10*s.* per annum, there was a profit of 2*s.* each, and not a loss as suggested. He thought the money well spent, and in a few years the Society would be in a much superior position to that of to-day.

Mr. R. C. Cowley thought that the student who had to pay 10*l.* 10*s.* would be better prepared, and if the fee were raised, there would not be any need for making the examination more stringent so as to get fees, as had been suggested by some. In the main he upheld the proposals of the Council. He did not think, however, that the Society had done well in appointing professors as examiners.

Mr. J. Smith said he was glad to hear the welcome intelligence about saving on the *Journal*. He quite approved of the action proposed to be taken by the Pharmaceutical Society, which would make students less anxious to try to "rush" the examinations and tempt failure. He thought the appointment of professors as examiners was good.

Mr. Prosper H. Marsden and Mr. Wyatt, jun., also supported the proposals.

Mr. R. H. Mitchell thought the proposed by-laws would be unjust to apprentices just entering the calling. Since he had heard Dr. Symes's statement his views had been modified, and he did not now oppose that proposal as he did at first.

Dr. Symes replied, and on the motion of the President the meeting agreed to the following resolution:—

> That this meeting is desirous of supporting the action of the Pharmaceutical Society in proposing an increase in the fees for the qualifying examination, and thereby ensuring that those who live under the protection of the Society shall contribute towards the expenses incurred by it, rather than such expenses should entirely fall, as now, upon those who subsequently join the Society as members or associates.

EDINBURGH ASSISTANTS.

At the annual meeting of the Edinburgh Chemists', Assistants' and Apprentices' Association held in the Pharmaceutical Society's House, Edinburgh, on April 23, Mr. James McBain (President) in the chair, it was reported that five apprentices had competed for the Ewing pharmacy prize (value 1*l.* 1*s.*), and that Albert Edward Kelly, 23 Bernard Street, Leith, had gained it. For the second prize William Center, 25 Ardmillan Terrace, and Peter Cowie, 85 Bruntsfield Place, were equal, and as the third competitor had not sufficient marks to gain a prize, the committee had divided Mr. Aitken's and the President's prize (10*s.* 6*d.* and 7*s.* 6*d.*) between these two.

Mr. Ewing presented the prizes as follows:—Attfield's "Chemistry," Ince's "Grammar," and Green's "Botany," vol. i., to A. E. Kelly; Newth's "Chemistry" and Muter's "Analytical Chemistry," to W. Center; and Gerrard's "Materia Medica" and Green's "Botany," vol. i., to P. Cowie. Mr. Ewing also made some remarks on the imperfect preparation of candidates for the examinations, which so often led to disaster.

The Secretary and Treasurer read their annual reports, which stated that the membership showed a slight decrease, but there was an increase in the number of apprentice members. The Association having expended the funds available for the Association prizes, these had been dropped, but it was intimated that Mr. David McLaren had offered an annual subscription of 2*l.* to allow the prize scheme to be continued. The financial statement showed a balance of 6*l.* 3*s.* 8*d.* Mr. David McLaren was elected an honorary member.

A discussion next took place on the proposed new by-laws of the Pharmaceutical Society, initiated by Mr. George Coull, who said with regard to the Preliminary examination they could not expect adverse criticism from him. There had been scarcely a dissentient voice on this point. Even the Boanerges of Cannon Street, while not exactly stamping it with approval, had treated it most mercifully. It would be necessary for the Council, however, to make very plain what certificates were to be accepted. This would obviate the dissatisfaction that had been felt in regard to the non-acceptance of certain certificates, which he at least thought should have been accepted. It would also prevent so much of the "unwritten law" and adoption without due notice of new rules,

which at present was too frequent. There had been less unanimity as to the increased Minor fee. The objectors were of two classes—first, those who feel pecuniarily affected, and, second, those who are directly hostile. Of the former were proprietors, &c., of papers who were rivals to the Society's *Journal*, and certain teachers who opposed the educational work of the Society. Of the second class were those whose letters indicated an increasing antipathy to everything connected with the Society and its work. The classes insensibly ran into one another. The criticism of THE CHEMIST AND DRUGGIST had been fully met in an editorial in the *Pharmaceutical Journal* on March 20, which he commended to their serious attention. On a matter of this kind he preferred to accept the figures of their own official rather than those of the editor of a rival journal. It had been well said that figures could prove anything. Any extra expenditure that had for the present been incurred in connection with the *Journal* would, he felt sure, soon be reduced, and the changes had been made at the request of the members. He had pleasure in moving—

> That this Association approve of the new by-laws as proposed by the Council of the Pharmaceutical Society, and considers that they are desirable, both in the interest of the public and those engaged in the business.

Mr. Lunan seconded the motion.

Mr. Cameron said he would not move any amendment, but had an impression that 5*l.* 5*s.* should be enough for the Minor, unless there was a sponge somewhere that sucked up the funds.

Mr. A. Currie moved as an amendment—

> That the Association approve of the extended Preliminary examination, but disapprove of the proposed increase in the Minor fee.

Mr. Kidd seconded the motion. After an interesting discussion a vote was taken, when eight voted for the amendment and twelve for the motion, which was declared carried. Several did not vote.

The following office-bearers were elected for next session:—President, George Sinclair; Vice-President, J. Donald Sinclair; Secretary, G. H. C. Rowland, 117 Princes Street; Assistant Secretary, David Harley; Treasurer, J. L. Reid; and as members of Committee, Messrs. Cameron, Center, Currie, Kidd, McBain, Mowat, Sivewright, and Sutherland; as members of Prize Committee, Messrs. Cameron, Dey, and McBain.

Combination in Pharmaceutical Life.

THIS was the topic on which Mr. T. Maltby Clague discoursed on Wednesday evening last in his opening address as President of the recently organised Newcastle-on-Tyne Chemists' Association. We have lived through the period of commercial history, he said, which has seen the decay and death (though, perhaps, not the reverent burial) of the old trade guilds, and we have lived into the age when trade unionism has become a factor which none can afford to ignore. Having pointed out that combination is not necessarily either good or bad, Mr. Clague went on to argue that chemists owed a great deal to the combination which had given them the Pharmaceutical Society. Especially had it enabled the chemist to prove his capacity for the life work which he has set himself, and had given him credentials to show the world that he has that capacity.

The Act of 1868 was a fusion of the nation's interests and ours; the protection of the public was sought by Parliament, and the protection of the chemist was also sought. Many of us think that a little more protection would not have harmed either of the parties to the contract. Henceforward the qualifications of the Pharmaceutical Society should have been a necessity to everyone who engaged in keeping open shop. That such was the intention of the legislature there is no doubt; that the safety of the public requires it is equally beyond dispute. But loopholes have been found, and the law has been evaded in instances beyond count, so much so that some say, "What is the use of getting qualified?" His answer was, Because those who have not got it, and are engaged in illegal trading, want it; and whenever their early education has been good enough for the Preliminary, and they have brains and energy enough for the Minor, they go for them. Next, because (in spite of its unwise running after Cheap! Cheap!) the public does set some store by qualification; and third and most important reason, because I am a self-respecting man, and owe it to myself, as well as to the community, that I come up to the established standard of knowledge in the profession which I practise. Having still further expressed his obligations to the Pharmaceutical Society, Mr. Clague went on to consider another combination of chemists represented by the P.A.T.A. This "healthy young infant association" proved that there are matters outside the sphere of the Pharmaceutical Society's work which are legitimate objects for combination in our craft. It would be unwise for the Pharmaceutical Society to take up pure matters of £ *s. d.* Chemists were ethically justified in combining to get a fair remuneration. With a strong association of retailers, it is conceivable, indeed probable, that the strongest proprietor may be brought to fair terms, and it is only by such combination, he thought, that we can hope to act with effect. Every additional member will add to the striking power of such an association, and in helping forward by numbers and influence such a movement we are doing what seems best for ourselves in our present circumstances. A general boycott of the owners of unprotected articles had been suggested. This, however, he thought was not playing the fair game.

Last among combinations of pharmacists, he considered their own Association, and pointed out the useful purposes it might serve. In conclusion he reminded his hearers that combination would not bring Utopia: it would not make the lazy man a successful one, nor replace individual effort. There are those who look to anything rather than to personal diligence for their success, and they will now say, "We have Carteighe and Hills for our fathers and Glyn-Jones for our foster-mother: then toil we not, neither do we spin, but fold our hands and wait." They will allow this or that branch of their business to slip past them; they will neglect their dispensing "because there is so little of it in this place," and forget the loss of prestige which their neglect entails; neglect their science because it is not ready cash; neglect their *Journal* because it contains some things that are too wonderful for them; neglect their CHEMIST AND DRUGGIST because its friendly help for a week or two does not happen to be along what they consider their "own line." Each of these used fitly would have better equipped them for the work they have to do, and raised them, and consequently raised pharmacy, in the estimation of the public. Ever and anon there are chances occurring of adding new branches of business, and these require what our Yankee friends call "live men," men who have kept up and worked up their vitality and virility, and are able to grasp what is worth the grasp. My belief, continued Mr. Clague, is that some of the new acreage in opening fields will be first and best occupied by that human organism trained in business and trained in science whom we call the pharmacist. True it undoubtedly is, that many such workers do not meet with the pecuniary reward which they deserve; but £ *s. d.* is not the *summum bonum*; and the extent of our happiness has other gauges than the banker's pass-book, and the whole duty and privilege of cultured manhood is not money-making. My plea is that it is best for the community in which we live that we should equip ourselves thoroughly for our work, and best for us that we serve our generation well.

Some thirty members were present at the meeting. The Treasurer reported that fifty had already paid subscriptions to the Association, and that some twenty others had intimated their intention to do so. A proposal to have half-day outdoor excursion in June was remitted to the Council for arrangement. A discussion followed Mr. Clague's address, and several interesting trade topics were keenly discussed. These subjects included the by-laws, arsenical soap, the cocaine habit, and the sale of poisons.

AT the annual meeting of the United Grand Lodge of Free and Accepted Masons, of which the Prince of Wales is Grand Master, held on Wednesday at Freemasons' Hall, London, Mr. Alderman Vaughan Morgan, one of the proprietors of THE CHEMIST AND DRUGGIST, was elected Grand Treasurer of the Lodge.

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THE CANADIAN TARIFF.

IT is nearly fifty years since the corn-laws were repealed in this country, and now, for almost the first time in our history, Britain's free-trade policy has received something like fair appeciation from one of the many producing lands which have all these years benefited by her open market.

As a matter of course we have invariably had the advantage of the most-favoured-nation clause in the arrangement of those nice adjustments which exercise the talents of foreign ministers of commerce; but Canada is, we believe, the first contracting authority which has given us any extra favour in return for our free abandonment to her, and to every other land with anything to sell, of our home markets.

Not that we have any right to complain. There is nothing generous about British free trade; it was advocated and adopted, and has been persevered in, from purely selfish motives. When we buy what we want at the lowest possible price we do this because it suits our purpose to do so, and we have no virtue in the transaction to vaunt. In giving up a fraction of her Customs duties on British goods Canada may perhaps claim to have been actuated to some extent by sentiment. The protectionist bias is very strong in Canada, and the new tariff proposals there are as much the outcome of patriotism as of reasoned economic conviction. "Favour to those I favour, But a stumbling-block for my foes," is Mr. Rudyard Kipling's idea of free trade, as expressed in his poem in Tuesday's *Times* on this topic; and it is not a very sound view. But it is probably the sentiment which will turn the balance of Canadian opinion in favour of the Government's scheme; for it is likely that commercial revenge on their next-door neighbours has been quite as influential as affection for the mother-country in promoting the present movement.

The tariff proposals announced by Mr. Fielding, the Finance Minister in Mr. Laurier's Government last week, are in essence very simple. In the main, it is intended to keep the present tariff in force though substituting, as far as possible *ad valorem* for specific duties. But it is also intended to grant a preferential rebate of duty on the goods sent by any nation which gives special advantages to Canadian goods. This is deliberately intended as a gift of Canadian custom to Great Britain. "England has dealt generously with us in the past," said Mr. Fielding; "why should we wait for England to do more?" And since last Monday morning, in every Canadian port, an allowance of one-eighth of the tariff rates was made in favour of all British goods entering the Dominion. This one-eighth is to be increased to one-fourth from July 1, 1898—that is to say, if the proposals are sanctioned by the Canadian Legislature, and should not prove to be in opposition to any British treaties. For, according to Mr. Laurier's opponents, there is a danger that Great Britain may not be able to accept this benefit unless it is at the same time granted to Germany and Belgium. If this should prove to be a valid objection, and the words in the treaties explicitly say that the produce or manufactures of the countries named shall not be subject to higher duties in any British colony than are imposed on British goods, the difficulty can only be got over by giving a year's notice of withdrawal from the conventions referred to.

With a population of about five millions the Dominion of Canada imports some twenty to twenty-five million pounds' worth of goods per annum, and now exports about as much. Of this quantity over six million pounds' worth of the imports in 1895 came from the United Kingdom, and the exports to the United Kingdom amounted to twice that value. In the same year Canada imported from the United States about twelve million pounds' worth of goods, and exported some eight million pounds' worth to its great neighbour. The imports from Germany in the same year were valued at rather under one million sterling, and those from Belgium at less than a hundred thousand pounds sterling. Clearly if Belgium and Germany are allowed to compete with Great Britain on equal terms in the Canadian markets for a year, they will not very seriously affect our trade, while the difference of 12½ per cent. in favour of British goods over those from the United States ought to transfer a large portion of that trade to our merchants. This, however, it must be remembered, can only apply to the manufactured goods supplied by the United States. It cannot affect natural products in which we have no chance of competing. The duty collected on "drugs, chemicals, &c.," in 1895 in Canada amounted to $280,471. This did not include oils, paints, colours, soaps, or perfumery.

READING THE BY-LAWS.

"The by-laws, of course, were not read, but taken as read, each member being provided with a printed copy."

THIS sentence from our report of the last Pharmaceutical Council meeting (April 10, page 573) was written innocently enough, but Mr. Bottle emphasised its importance at the special meeting on Wednesday, by altering the mode of procedure to the extent of moving that the by-laws be taken as read. This the Council agreed to, but entirely under a misapprehension, we venture to say. The mode in which the by-laws of the Society may be altered is clearly laid down by Section IV. of the by-laws, conformably with the principles of the charter and the Pharmacy Acts, viz.:—

The making, altering, or abrogating of any by-law or any regulation, to be prescribed by the Society, in accordance with any statute, shall be in the following manner:—

1. A written formula for any proposed by-law or regulation, or for altering or abrogating any by-law or regulation, being delivered by a member of the Council to the Chairman, shall thereupon be read, and if seconded and approved, shall be referred to two subsequent ordinary or special meetings of the Council for confirmation, and then to a special general meeting of the members of the Society, and afterwards to the Privy Council, according to the provisions of the Pharmacy Act, 1852, and the Pharmacy Act, 1868.

It will be seen from this that one reading only is necessary, and two confirmations; the reading to take place at the first of the three meetings of the Council prescribed by the charter. As a matter of fact, no articulate reading has taken place, and we are not prepared to say that a motion to the effect that the by-laws be taken as read would meet the case. Certainly, Mr. Bottle's motion of this week was quite immaterial, as that meeting and the one next week have merely to confirm the first reading. This is not a matter in which hairs need be split, but since the Council desires to follow the legal formula with perfect strictness, it may be well to inquire whether Section IV. has been rigidly adhered to. These are the conditions:—

First: "A written formula"—does such a thing exist? We have seen a printed one.

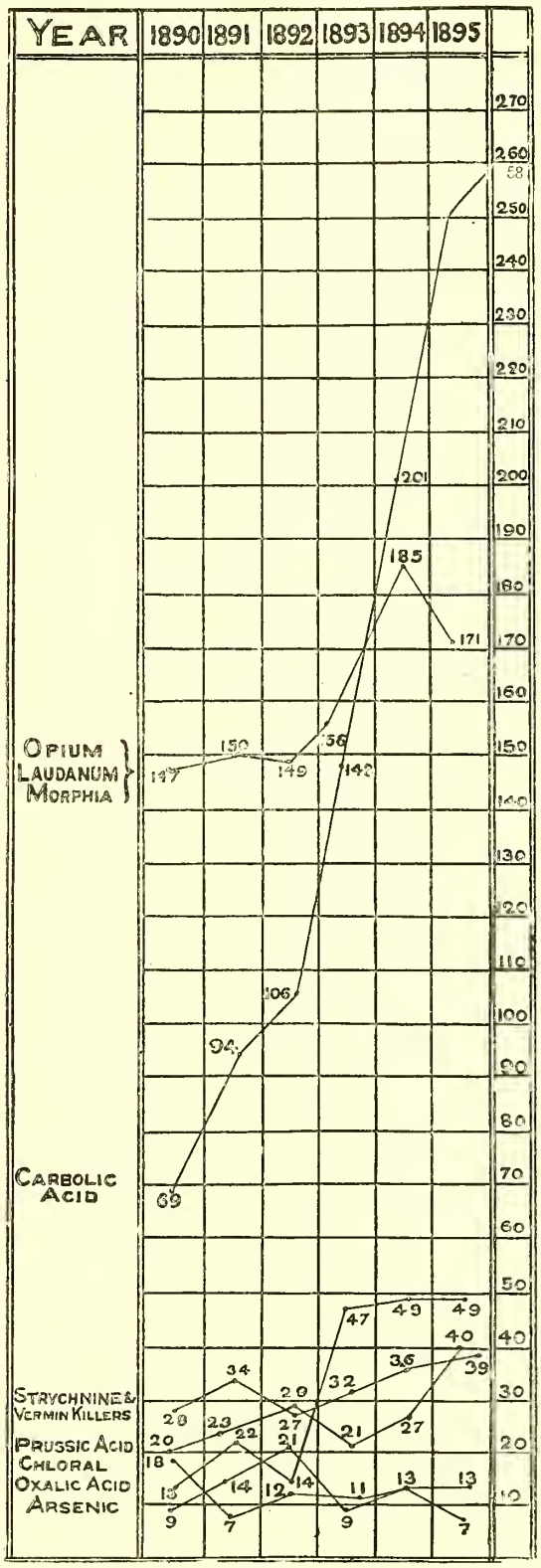
Second: "Delivered by a member of the Council to the Chairman." As Mr. Carteighe has admitted that he altered the by-laws we presume that this condition has been complied with.

Third: "Shall thereupon be read"—which has not been done *per voce* at any meeting of the Council. If reading by the voice is essential to the passing of the by-laws, there is an end of the matter, for the present, at all events.

CARBOLIC-POISONINGS IN 1895.

FROM the Registrar-General's statistics of births, deaths, and marriages, we once more collect the figures relating to deaths by poisoning. Once more, and as usual, the chief interest of these figures lies in the still growing popularity of carbolic acid as the cause of death. We showed by a diagram last year that this still unrecognised poison had

become an easy first among all the deadly drugs used for suicidal purposes and causing death by accidental means. In 1895 it again got far ahead of its previous record, and left



all other competitors hopelessly behind. Its total achievements were 34 deaths by accident and 224 by suicide—more than all the deaths from opium, laudanum, morphia, prussic acid, and oxalic acid. And yet, thanks to the wisdom of Whitehall, it still remains an article on the sale of which no restrictions are necessary. The public hangman disposed of ten persons in 1895 with great formalities. If there is a soul in things inanimate, how the essence of carbolic acid must laugh at the seriousness with which the nation regards such a trumpery rival to its power. The following table is compiled from the official returns :—

—	Negligence and Accidents		Suicides	
	Male	Female	Male	Female
Acetic acid	1	—	1	1
Aconite	3	1	4	1
Alcohol	4	1	—	—
Alkali	—	1	—	—
Ammonia	5	6	4	4
Anæsthetics :—				
Chloroform	43	25	1	1
Ether	1	4	—	—
A.C.E. mixture	1	—	—	—
Kind not stated	2	2	—	—
Antimony	—	1	—	—
Arsenic	2	1	3	1
Belladonna	7	3	1	3
Berries, plants, seeds	—	5	—	—
Bichromate of potash	—	—	3	—
Camphorated oil...	—	1	—	—
Camphor, tincture	—	1	—	—
Carbolic acid	11	23	114	110
Carbonic-acid gas	2	—	1	—
Carbonic oxide	3	4	—	—
Caustic potash	2	1	—	—
Chloral	8	2	3	—
Chloride of zinc	—	—	—	2
Chlorodyne	9	3	4	1
Coal-gas	7	6	—	—
Coal-tar	1	—	—	—
Cocaine	1	1	—	—
Condy's fluid	1	—	—	—
Cyanide of potassium	—	—	18	5
Ergot of rye	—	2	—	—
Fish, poisonous	5	1	—	—
Food, unsound	2	—	—	—
Fruit, unsound	3	—	—	—
Fumes (charcoal) from fire ...	2	—	1	—
" " from kiln ...	3	—	—	—
" sulphur	2	—	—	—
Hydrochloric acid	5	3	19	6
Iodine	—	—	1	—
Iodoform	—	1	—	—
Lead	116	27	—	—
Lime	1	—	—	—
Liniment	3	4	—	—
Mercury	3	1	1	—
Muscarine	—	1	—	—
Narcotic	—	—	1	—
Nitric acid	1	1	5	1
Nitrous oxide	—	1	—	—
Nitro-glycerine	1	—	—	—
Oil of cloves	—	1	—	—
Opium, laudanum, morphia ...	63	40	48	20
Oxalic acid	1	2	25	21
Paraffin	2	—	—	1
Paraldehyde	—	1	—	—
Phosphorus	—	6	3	2
Prussic acid and oil of almonds	3	—	36	1
Ptomaines	3	6	—	—
Putrid meat	4	2	—	—
Salt of lemons	—	—	1	6
Smoke	2	1	—	—
Soda	—	1	—	—
Soothing-syrup, cordial, paregoric	2	—	—	—
Strichnia, nux vomica	3	—	16	15
Sulphate of zinc	1	—	—	—
Sulphuretted hydrogen... ...	4	—	—	—
Sulphuric acid	5	2	3	4
Tobacco	1	—	—	—
Turpentine	—	1	—	—
Vermin-killer	—	—	1	4
Kind not stated	35	11	29	23

A COOL ARGUMENT.

Mr. George Coull, B.Sc., has told an Edinburgh audience that The Chemist and Druggist's criticism of the proposed increase of the Minor fee has been fully answered by an editorial in the *Pharmaceutical Journal* of March 20. That, we suppose, is Mr. Coull's little joke (one does not know when to take him seriously), for the editorial in question makes no pretence of answering our criticisms. Mr. Coull says he prefers to take the statements in the official organ rather than ours. As a general rule, we should advise him to take neither, but to inquire for himself when he is going to open a discussion. In this case, however, there is no discrepancy between us. The *Pharmaceutical Journal* does not controvert one of our allegations, nor do we challenge any of its assertions. For the moment we are not interested in the average cost of the past fifteen years. Our contemporary submitted a defence of the present *Journal* expense, based upon a fifteen-years' average. The point we insist upon is that the proposed increase of the Minor fee is unwarranted, because the revenue from the qualifying examinations has always paid for conducting the examinations, keeping up the register, and protecting the trade as far as Pharmacy Act prosecutions are concerned and there have been large annual surpluses after doing all these things. No member of the Pharmaceutical Council, nor the *Pharmaceutical Journal*, nor any speakers on their behalf, have yet attempted to disprove that statement, and until they do so our argument is unassailed; and until they can destroy that crushing argument they cannot show a sufficient reason why the Pharmaceutical Society should help itself to public money because it happens to be financially embarrassed. The only way the *Pharmaceutical Journal* comes into the discussion at all is that we have advanced as a probable reason for the proposed increase the exceptionally heavy expenditure on that journal during recent years. There are, besides, other purely Society matters which have yearly absorbed more and more money. The *Pharmaceutical Journal's* fifteen-years' average of its cost was utterly misleading, because the conditions upon which the *Journal* is now produced entail an expenditure of 3,000*l.* a year more than was the case five years ago. The editorial which Mr. Coull refers to really admits our point, thus:—

Within the last few years the changes made in connection with the *Journal*, in pursuance of the suggestions of Mr. R. A. Robinson, as well as many other members of the Society, have entailed an expenditure greater than that shown for the average of the last fifteen years; but it has been in compliance with a very general demand on the part of the subscribers to the Society, and the result has met with such very general appreciation and approval as to furnish great satisfaction and encouragement.

Every member of the Council and every auditor knows that what we have said is justified in every detail; and not one of them dare deny that the increased fee is primarily sought, not for the more efficient discharge of the duties imposed upon the Society by the Pharmacy Act, but in order to continue the *Journal* subsidy. Were that subsidy not required we should never have heard about the ten-guinea fee.

LIGHT FROM LIVERPOOL.

Liverpool chemists, under the guidance of Dr. Symes, are some two months behind the times. They have resolved to support the effort of the Council of the Pharmaceutical Society to double the Minor fee on the ground, as explicitly stated in their resolution, "that those who live under the protection of the Society shall contribute towards the expenses incurred by it rather than that such expenses should entirely fall, as now, upon those who subsequently join the Society as members or associates." Liverpool might be on one of those distant stars we read about, the light to and from which takes months or years to travel. If we have done nothing else by our articles, we have at least crushed out the ridiculous fiction that it is the members of the Pharmaceutical Society who are paying for the protection of the trade, and no man outside Liverpool with any arithmetical reputation to maintain puts forward that argument now. The members of the Society by their subscriptions (as Mr. Gascoyne showed in our columns last week) do not pay for more than about half of the luxuries which they reserve to themselves; the candidates' fees pay at present not only for the examinations, but for all the protective work of the Society, all the registration expense, all the rent, and all the salaries of the Society. This is not hyperbole; it is a simple statistical fact, and we trust the President of the Liverpool Chemists' Association, who seems to have framed the extraordinary resolution from which we have quoted, will look into the matter more closely.

EXAMINATION LEECHES.

Truth states that, in consequence of the remarks which have recently appeared in its pages upon the exorbitant fees for the Pharmaceutical Society's examinations, one or two letters from medical men have been received pointing out that the Pharmaceutical Society is no worse in this respect than the Medical Colleges. The examinations for Licentiate of the College of Physicians and membership of the College of Surgeons involve a minimum expenditure of 37*l.* in examination-fees, whereas the aggregate examination-fees for the degree of M.B. of London University only amount to about 17*l.* The Medical Colleges profess not to make any profit out of their examinations, the explanation of the magnitude of the fees being that they are necessary to pay the examiners properly. This (*Truth* says) is all nonsense. It is absurd to suppose that the examinations at the Medical Colleges could not be conducted as cheaply as at the University of London.

HOMŒOPATHIC MEDICINES AND THE MEDICINE-STAMP.

Messrs. E. Gould & Son, manufacturers of homœopathic medicines, have come through a controversy with the Board of Inland Revenue, with the result of advancing to a small extent our knowledge of the dividing line between the liability of homœopathic medicines to medicine-stamp duty. On the strength of the decision in the case of Smith *v.* Mason, the Board of Inland Revenue asked Messrs. Gould to show cause why they should not pay a fine in respect of certain homœopathic tinctures sold by them which were held out or recommended for the relief or cure of certain human ailments in a pamphlet entitled "Simple Directions for the Treatment of Common Complaints, and the Principal Uses of the more common Homœopathic Medicines," published by them at the retail price of one penny. Messrs. Gould argued that this penny pamphlet was as much a medical work as the Cyclopædia of Drug Pathogenesy published by them at four guineas. If the recommendation of a medicine in a medical work brings that medicine under the liability to medicine-stamp duty, what of all the Pharmacopœia and other medicines held out and recommended in such works as Quain's Dictionary? Apparently if the pamphlet had been given away instead of being sold the Board would have then regarded it as certainly an advertisement and coming within the decision in the Mason case. In this case, however, they have withdrawn their claim on Messrs. Gould on condition that this firm will describe themselves on the pamphlet simply as publishers and not as "homœopathic medical publishers," and will omit from the pamphlet certain advertisements of medicine-chests which now appear there. The conclusion is perhaps roughly just, though the defendant in Smith *v.* Mason may not think so.

THE INTERNATIONAL PHARMACEUTICAL CONGRESS.

Mr. Duyk, the General Secretary of the forthcoming International Pharmaceutical Congress, writes to us again (from 102 Chaussée de Wavre, Brussels), asking us to remind British pharmacists that notification of the subjects on which they desire to submit papers must be received by the organising committee before the end of May.

CROOKET SCOTCH.

The *Chemical News* is not usually funny, but it seems to have lost its head over the Dewar-Ramsay affair. We cut the following from last week's issue:—

WHO SHALL BE HEN-WIFE.

"Na ye maun gan wi' me the noo, Wullie" (his name was Charles), said Henrietta, as she flung a brawny arm round the lad's neck; "sure my friend Jemmie's as Scotch as they make 'em."

"Na, na, lass; I maun gan wi' Wilhelmina, an' my name's no Wullie,—hang it!—and ye need na gar me a crick in my—what do you call it in this lingo?—craig. Your fren' Jemmie's a fause loon; didna she deceive the kirk and get the mickle rebuke o' the meeneester?"

"Then ye'll no mair keep company wi' me (hang this jargon!)," said Henrietta, who was English, and found Kailyardish trying.

Said Charles, "I care no for ye, an I ne'er lo'ed ye nor e'r any but the Scots lassie Wilhelmina."

"You're a rude little boy," said she.

"Stay y're havers, and no clack like siccan," said the Chem. Soc., afflicted by the *genius temporum*, and involuntarily speaking the lingo.

"An' why shall we no have a bit clavers? Sair, I ken I'm as winsome as Jemmie," said Wilhelmina, as she tried to pull Wullie to her side.

"Bide a wee," said a voice. It was Jemmie's.

There was a confused struggle; Wullie squealed and kicked, the Chem. Soc. awoke with a start, and found Jemmie installed as hen-wife, and the kailyard resuming its normal gentlemanly demeanour. IAN MCCROCKETT.

This is dreadful Scotch, we are informed, for we keep a few species of Scotchmen on the premises, and they say that it is a disgrace to their country that Mr. Crookes (whose forebears are mentioned by Burns) should print such stuff. Wullie, *alias* Charles, we take to be Mr. Cassal, and Henrietta seems to be Professor Armstrong. Jemmie we must regard as a woman, too, but that is Ian McCrockett's fun; he meant Professor Dewar, as doubtless he meant Professor Ramsay when he wrote down the Scoto-Teutonic Wilhelmina. "Normal gentlemanly demeanour" is expected from all this! Surely Ian McCrockett is a false prophet.

OUR EXPORTING COMPETITORS.

There is a new lot of specimens of merchandise from the colonies on view at the London Chamber of Commerce. The samples are mostly hardware and clothing goods of German and American origin. The only exceptions which might be of interest to our readers are a few common bottles made in Germany, which are sent from South Australia. Unfortunately, the cost price of these is not given in a single instance, so that British manufacturers cannot judge whether they are being beaten or not. South Australia also sends a sample of an enema, labelled "Omega Enema, No. 5," made by Parker, Stearns & Sutton, of South Street, New York. It is sold at 18*s.* per dozen, but seems to offer no particular temptation. From Sandakan, North Borneo, come a few styles of common perfumes, Roger & Gallet's, which retail at 75c., and a Geman "ess. bouquet," retailing at 60c. British makers could easily beat these if the Sandakan retailers are content with anything not exceeding 100-per-cent. profit. Some French red writing-ink is ticketed "Red Marking-ink," which it is not, and a couple of blocks of common French soap costing 18*s.* 3¼*d.* per cwt. are sent from Gambia.

THE use, for pharmaceutical purposes, of percolators of enamelled iron has been prohibited in Denmark.

Lead in Liquor Potassæ.

By WM. GEO. STRATTON.

THE presence of lead having been detected in some liquor potassæ obtained from a wholesale firm in the ordinary course of business, it was thought advisable to see whether such an impurity was of frequent occurrence or not. For this purpose thirty-six samples were obtained from representative English and Irish pharmacies, and subjected to examination. The percentage of potassium hydroxide was also estimated.

The lead was determined as follows:—To 20 c.c. of the solution acetic acid was added in excess; solution of potassium chromate was then poured in, and the resulting precipitate collected on counterpoised filter-papers, washed, dried for two hours in a water-oven at 100° C., allowed to cool under a desiccator, and finally weighed. In those cases where the quantity of lead was too minute for gravimetric determination the amount of coloration produced by adding ammonium sulphydrate to a measured volume of the liquor was compared with that produced in a solution of lead of known strength, and the quantity present thus inferred. From the data obtained the amount of metallic lead present was calculated in the usual way. The percentage of potassium hydroxide was determined volumetrically by means of standard solution of hydrochloric acid, phenolphthalein being used as an indicator. The following table gives the results obtained:—

Sample	Percentage of KOH	Percentage of Metallic Lead
No.		
1	5·824	·057
2	4·768	·066
3	6·351	·060
4	5·273	·065
5	6·617	·005
6	6·665	·032
7	5·105	·004
8	7·180	Traces
9	4·768	·004
10	6·507	·003
11	4·544	·004
12	6·227	·006
13	6·058	·014
14	5·273	·002
15	6·563	·012
16	6·395	·045
17	4·768	Traces
18	7·349	Lead absent
19	2·524	"
20	6·563	"
21	6·395	"
22	6·114	"
23	6·058	"
24	5·666	"
25	5·824	"
26	6·507	"
27	5·321	"
28	6·665	"
29	6·237	"
30	6·665	"
31	6·058	"
32	5·497	"
33	6·351	"
34	6·563	"
35	6·788	"
36	6·273	"

It will be seen from these figures that a large proportion of the liquor potassæ of commerce is contaminated with a poisonous impurity.* How does this arise? Rumour in the trade says that although the preparation is directed in the B.P. to be stored in bottles free from lead, some manufacturers make it by allowing the lime, carbonate of potassium, and water to stand in lead-lined casks, occasionally stirring until the lime is dehydrated. If this be true, the presence of lead in so many samples is easily accounted for. There is no doubt that negligence exists somewhere—either in the manufacture or storing of the preparation.

My thanks are due to Mr. E. H. Farr, F.C.S., Uckfield, in whose laboratory my experiments were made.

* This expression is scarcely warranted. The solution is contaminated with lead, but in much too minute a quantity to be poisonous, although it should not be there.—ED. *C. & D.*

More Dispensing Notes.

By HAROLD WYATT, Jun., Ph.C.

(Read at a meeting of the Liverpool Chemists' Association, April 28.)

PRESCRIBERS who dislike to see a muddy or unsightly mixture result from a strict adherence to the letter of their prescriptions are sometimes surprised at the manner in which certain infusions and fluid extracts containing bodies of a glucosidic nature behave with acids or in many cases neutral salts. The two following prescriptions illustrate this:—

Vin. ipecac.	ʒj.
Spt. ætheris. nit.	ʒiij.
Liq. ammon. acet.	℥ij.
Tr. bellad.	ʒj.
Syrupi	ʒiv.
Infusi senegæ	℥iv.
Aquæ ad	℥viij.

A muddy mixture resulted from the acidity of the spt. æther. nit. and liq. ammon. acet. throwing down the senegin from the infusion.

Potass. bromidi	ʒiv.
Ext. cascara sag. liq.	℥iv.
Ext. glycyrrhizæ liq.	℥iss.
Tr. chlorof. co.	ʒij.
Aquæ ad	℥vj.

In this a precipitate of glycyrrhizin was formed, partly due to a slight acidity of the extract of cascara, and probably to the presence of the potassium bromide.

The doctor wished both these mixtures to be perfectly clear, and this was soon obtained by the addition of enough solution of ammonia to dissolve the senegin and glycyrrhizin.

Sodii bicarbonatis	gr. xl.
Glycerini	ʒiv.
Liq. sodæ chlorinatæ	℥iss.
Misturæ guaiaci ad	℥iv.

A deep blue-green colour was communicated to the guaiacum resin by the oxidising action of the liq. sodæ chlorinat., and nothing would prevent this taking place.

A gargle containing

Acid. salicylic.	ʒij.
Sodii biboratis	ʒiij.
Glycerini	℥iss.
Aquæ ad	℥viij.

gave a copious precipitate of boric acid, although the salicylic acid and borax were soluble in water alone. The well-known property of glycerine to form with borax glyceryl borate and sodium meta-borate, and the further decomposition of this glyceryl borate with water, producing boric acid, was the secret. On heating, the boric acid in its turn was dissolved by the excess of glycerine, and a permanently clear solution was obtained.

The next prescription is given as an instance where the application of heat is quite inadmissible:—

Acid. hydrobrom. dil.	℥ss.
Aceti ipecac.	℥ss.
Nepenth.	♏xl.
Acidi benzoici	gr. xl.
Syrupi croci ad	℥ij.

The benzoic acid was rubbed fine and suspended in the other ingredients. As there is no official formula for syrupus croci, that given in "Squire"—saffron 1, glycerine 20, proof spirit 20—was used, yielding a syrup superior in colour to those made with most concentrated liquors.

The following was incompatible, and seemed likely to be a mixture in which the use of mucilage would be the only way out of a difficulty:—

Tr. quininæ co.	ʒvj.
Potassii iodidi	gr. xviij.
Potassæ bicarb.	ʒiss
Ammon. carb.	gr. xl.
Syrupi	℥ss.
Aquæ ad	℥vj.

Quinine hydrochlorate gr. vj. was well triturated with 60 gr. of lump sugar, and suspended in 2 oz. of water. The salts were dissolved in more of the water, the two liquids mixed, and 6 dr. tr. aurantii added last. A good mixture, only requiring a slight shake to diffuse the quinine, was thus obtained without the use of mucilage.

An Explosive Mixture.—Once I had to dispense a French prescription, whilst I was in France, containing iodine and spirit of turpentine, intended for inhalation:—

	Grammes
Iode métallique	10
Alcool	30
Essence de térébenthine	200

Knowing the result when metallic iodine in fine powder is dropped into turpentine, I rubbed the iodine fine with the alcohol, and added them to the turpentine little by little, no explosion taking place. A little of the iodine left in the mortar, having become dry by evaporation of the spirit, exploded with a violet flame when more of the turpenture was poured upon it by way of experiment.

An Incompatible Pill-mass.—On dispensing a prescription containing—

Pot. permanganatis	gr. xij.
Ergotini	gr. xij.

divided into twelve pills, the mass soon heated and crumbled to powder; so the ergotin was first massed with pulv. althææ, cut into twelve pills, and each of these flattened out on the pill-machine. The permanganate was then made up with unguentum resinæ, cut into twelve pills, and rolled well in talc powder. Each of these pills was placed in the centre of one of the ergotin discs, curling the edges of the latter round the pill, so as to completely cover it. On burnishing and varnishing with tolu the mass turned out in the form of twelve pills of permanganate coated with ergotin, which remained stable and gave us no further trouble.

Spanish Prescriptions.—Cod-liver oil is often ordered in Spain together with metallic salts, tinctures, or fluid extracts, but without any direction from the prescriber as to whether an emulsion is to be made or the mixture merely shaken before use. The latter course had been adopted by a previous dispenser of the following:—

Ioduro potassio	10 gramos
Aceite de hígado de bacalao pardo	250 gramos

Mezclado bien.

The iodide remained in crystals difficult to suspend, no matter how carefully powdered or vigorously shaken. The patient was entirely satisfied when the iodide was dissolved in 12 grammes of water before adding to the oil.

Tincture of iodine and cod-liver oil ordered in the following prescription mixed easily on shaking, but gave an inelegant-looking compound; however, as it was for external use, this did not matter:—

Tintura de iodo	120 gramos
Aceite de hígado de bacalao (puro sin ser purificado)...	500 gramos

Pouer de esta preparacion todas las noches con un pincel en la espinal dorsal.

(To be applied to the spine each night with a brush.)

Cod-liver Oil and Creosote.—Creosote, unlike guaiacol, does not give a clear solution in cod-liver oil, and has recently caused me some trouble, owing to fastidious patients taking creosoted oil objecting to the cloudiness, which is more pronounced with some creosotes than others. To try and get a clear solution, I dissolved the creosote in an equal bulk of absolute alcohol before adding to the oil, but with no better result. A mixture of castor oil and creosote was then tried with the same result. On further trial I have discovered that creosote, castor oil, and absolute alcohol, in equal proportions, mix perfectly clear with cod-liver oil in any amount.

Curious Phenomenon.—When rubbing valerianate of quinine and exalgine forcibly in a porcelain mortar, distinct and vivid phosphorescent flashes were produced, similar to those seen when sugar is broken in the dark, but much brighter.

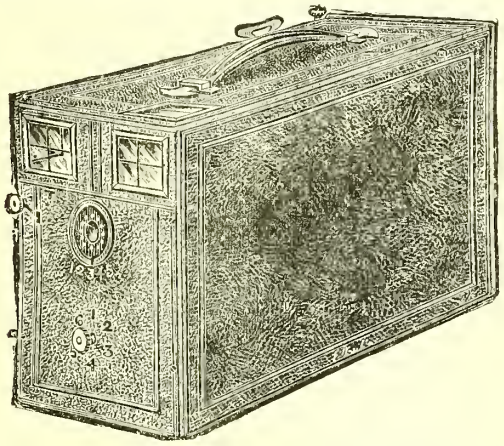
MR. JOHN TOCHER, phar. chemist, Dunfermline, has purchased Mr. J. W. Sutherland's business in High Street, Dumfries. Mr. John Keith, of Blyth, bought the other one.

Photographic Notes.

BY A PHARMACEUTICAL CAMERIST.

Do you Want a Hand-camera?

The Editor offers one of these hand-cameras, by Messrs Darton, for the best print (quarter or half plate) of a pharmacy exterior or interior, modern or old-fashioned. A section of a pharmacy will be eligible if it shows something of special interest, such as an old cabinet or a new arrange-



ment in fittings. The competition will remain open during this month, and all subscribers, or members of their families and staffs, may join in it. I hope there will be a good response. The prints should be addressed to the Editor, *C. & D.*, 42 Cannon Street, London, E.C. The prize-picture and those that are commended will be reproduced in the *C. & D.*

The Colour-photographs.

The specification of Chassagne's patent for producing photographs in colour has been reprinted in the *British Journal of Photography*. The process was said to be based upon the property of selective colour-absorption superinduced by (1) treating the plate upon which the negative was taken with a special solution; and (2) treating the positive print with the same solution, the successive application of the blue, red, and green colouring-solutions producing the natural colour-effect on the print. The *B. J. P.* points out that there is no reference in the inventor's description to the treatment of the negative or the unexposed plate with any special solution. The process appears to consist in treating a silver-print or glass-transparency with five specially-prepared solutions, the compositions of which are described in the specification, and seem to be a mass of the grossest empiricism, about a score of metals being incorporated as salts in the solutions, entirely without reference to their optical properties and molecular weights.

Dark-Rooms.

The following chemists have dark-rooms in their pharmacies, and will be glad if pharmaceutical *confrères* will refer customers, who happen to be in the districts, to them:—

Burntisland, N.B.—Mr. George Pringle.
Henley-on-Thames—Mr. A. Cartwright.
Llanrwst—Mr. Arthur Parry, Station Road.
Melrose—Mr. D. F. Johnstone, the Abbotsford Pharmacy.

Developing and Printing as an Adjunct.

The Easter holidays have made me busy developing plates and spools of film for those of my customers who prefer someone else "to do the rest." It pays very well too. Take the pocket Kodak films for instance. The charge for developing a spool of 12 exposures is 1*s.* 6*d.*, and without any special faculty for this kind of work it is easy to do 6 spools in an hour, and still turn out very decent work. The way I do it is first of all to cut off the separate exposures and put into a light-tight tin tube, taking care not to mix up different customers' films. Instead of developing dishes I use small medicine tumblers. Metol developer (*C. & D.*, April 27, 1895) is my favourite for film-work on account of its perfect freedom from staining the fingers, as there is, of necessity, a good deal of handling required. A medicine tumbler will hold three of the small films at once, and, owing to the curious way the cylinders of film have of opening out as soon as wetted, there is no difficulty in getting them evenly developed. As soon as sufficiently dense they are fished out and dropped into the hypo bath (ʒiv. to Oj.) contained in a pint measure. When fixed they require half-an-hour's washing, and a final glycerine bath (ʒj. to Oj.) for five minutes: they are then pinned by the four corners on a board and left to dry. For larger films I always use the "Bessus" film-holders, in a long dish capable of containing three films side by side in the same solution. As there must be some chemists with time on their hands who do not find photographic operations distasteful, I give below some particulars of prices I charge for photographic work. A good deal of it I do myself, but in the height of the season I am compelled to "put out" some part of it.

		¼-Plate.		½-Plate.		Whole Plate.	
		s.	*d.*	*s.*	*d.*	*s.*	*d.*
Developing	per doz....	2	6	3	6	5	0
Intensifying	each ...	0	3	0	4	0	6
Copying	each ...	1	0	2	0	3	0
Enlarged Negatives	each ...	1	6	2	6	3	6
Transparencies	each ...	1	3	2	0	3	0

Printing		C. D. V. or ¼-Plate.		Cabinet or ½-Plate.		Whole Plate.	
		s.	*d.*	*s.*	*d.*	*s.*	*d.*
Gelatino-chloride	per doz....	1	6	2	6	5	0
Platinum	per doz....	2	6	4	0	6	0
Bromide	per doz....	2	0	3	6	5	6

Bromide Enlargements		8½ × 6½		10 × 8 or 12 × 10		15 × 12	
		s.	*d.*	*s.*	*d.*	*s.*	*d.*
On paper	each	1	6	2	0	3	0
On opal	each	3	6	4	6	6	6

Retouching, from 2*s.* 6*d.* to 5*s.*, according to the size of the head.

The New Examiner of Examiners.

We are able to print to-day a portrait of Dr. G. Balfour Marshall, of Glasgow, who has been appointed by the Privy Council to succeed Sir Douglas Maclagan, M.D., as their representative at the Edinburgh Pharmaceutical examinations. Dr. Balfour Marshall is an M.D. of Edinburgh. After

taking his bachelorate in medicine and surgery, he held appointments on the Edinburgh Royal Infirmary and Chalmers Hospital staffs. Subsequently he continued his studies at Dublin, Jena, and Berlin. He is now in private practice in Glasgow, and is a lecturer in the Western Medical School there.

Trade Reports.

42 CANNON STREET, E.C., *April* 29.

BUSINESS continues generally very quiet, but at the drug-auctions to-day the 17 catalogues with the large bulk offered, as is usual after an interval of four weeks, were got through much more rapidly than was anticipated. Jamaica sarsaparilla sold at a further advance. Ipecacuanha was dearer. Cardamoms met with a further decline. Rhubarb sold well where not held too firmly. The principal change during the week has been in iodine, which, although small, shows the condition of the article and the likelihood of a still further reduction.

Hamburg Telegram.

Our Hamburg correspondent telegraphs on Thursday afternoon that *Camphor* maintains its firm position at 2.95m. per kilo. *Cod-liver* oil is without animation at 66m. per barrel. *Saffron* dull of sale at 75m. per kilo. Business generally is quiet.

Bergen Telegram.

Our Bergen correspondent telegraphs on Thursday afternoon that the Lofoten fishery is now closed, and that the result of the *Finmarken* fishing up to date is poor. The total catch of fish for the season amounts to 46,550,000, against 37,700,000 at the corresponding period of last season. The output of medicinal cod-liver oil is 25,820 barrels, against 14,750 at the same time of last year. The market is unaltered, best non-congealing oil being obtainable at 67*s*. per barrel, f.o.b.

New York Cablegram.

Our New York correspondent telegraphs late on Thursday afternoon that the drug and chemical markets are dull. *Balsam copaiba* is quoted higher. *American-bleached beeswax* has advanced to 27c. for fair quality and 30c. for genuine. All kinds of *Essential oils* and *Roots* are neglected. *Cotton-seed oil* is in a steadier position, bottom prices having been reached.

Smyrna Opium Telegram.

Our Smyrna correspondent telegraphs on Thursday afternoon that the opium market is very firm. The American agents have bought 30 cases this week, at a price equivalent to 8*s*. 8*d*. per lb., f.o.b., for good *Druggist's* quality.

ACID (CARBOLIC) maintains the strong position it has held for some time. *Crystals*, 39° to 40° C., are quoted at 8*d*. to 8¼*d*. per lb., and 34° to 35° C. at 7¼*d*., the latter price being very firm. *Crude* carbolic acid offers at 2*s*. 3*d*. to 2*s*. 4*d*. for 60 per cent. and 2*s*. 8½*d*. to 2*s*. 9*d*. per gallon for 75 per cent.

ACID (CHRYSOPHANIC).—The demand continues very slow, with sellers at 13*s*. to 13*s*. 6*d*. per lb.

ACID (CITRIC).—Dull of sale. The quotations are unchanged—viz., 12½*d*. to 12¾*d*. per lb. for *English* B.P. *Concentrated juice* quiet, at 11*l*. 15*s*. per pipe, f.o.b.

ACID (TARTARIC) is in a firm position, but without any quotable change from last week: *English* at 1*s*. 1*d*. per lb. for *Lawes'* brand, and foreign at 12¼*d*. per lb.

ALOES.—*Cape* aloes is firm at 22*s* per cwt. for fair hard bright slightly drossy, down to 16*s*. 6*d*. for softish *Socotrine Zanzibar*. A new lot of 65 cases liquid was offered at sales, but no bid was forthcoming; 35*s*. per cwt. was understood to be the price. Sales have lately taken place of hard quality, at 52*s*. 6*d*. per cwt. Three cases of *Zanzibar* in skins, fair hard, but very leafy, sold at 57*s*. 6*d*. per cwt. In kegs, 46 were offered, softish and rather dark being held for 80*s*. per cwt.; 17 kegs of rather preferable were held for 85*s*. per cwt. There was no *Curaçao* aloes in sale.

ANTIMONY.—Fifty cases of crude *Japanese* were bought in at the auctions at 19*l*. 10*s*.

ARABIC.—Nearly 200 packages of various qualities were offered, but the demand generally was very dull. Some good soft sorts sold at rather easier prices—viz., 82*s*. 6*d*. per cwt. Small medium white picked gum was held for 10*l*. 10*s*. per cwt. Four cases of picked grains sold cheaply at 6*l*. 15*s*., and some bolder, rather yellow glassy, at 5*l*. 15*s*. per cwt., this lot being without reserve. Other qualities were bought in without any interest being shown.

ARSENIC.—Best white powder is quoted at 25*l*. per ton on the spot.

ASAFŒTIDA.—One hundred and two packages of old import were offered at the sale, but in view of the late large arrivals there was no demand, and the whole was bought in without eliciting any bids. There is a demand for the Continent for low quality at 40*s*. to 45*s*. per cwt., but this cannot be met. There is little movement in this article, and heavy supplies are coming forward. The quotations range from 40*s*. to 80*s*. per cwt., according to quality.

BALSAMS.—*Tolu* is in steady demand, and for genuine old quality 3*s*. 2*d*. per lb. has been paid. *Copaiba*: Large arrivals continue to take place at New York, and prices are falling rapidly. Twelve packages *Maranham* have also arrived at Liverpool per the *Bourbon*. At the sales three casks of good *Maranham* were held for 2*s*. 3*d*. per lb., this being again lower.

BENZOIN.—*Sumatra* was in large supply; 42 cases of good to fine were offered without reserve, owing to the cases being more or less scented with paraffin oil. Very fine seconds sold at from 9*l*. 5*s*. to 9*l*. 10*s*., fine at 8*l*., and good at 7*l*. 5*s*. to 7*l*. 7*s*. 6*d*., being cheap. Medium seconds with very bad ends and sides sold at 5*l*. 17*s*. 6*d*. to 6*l*. per cwt.; 29 cases very good almondy centres, but badly packed, realised 5*l*. 12*s*. 6*d*. to 6*l*. per cwt. The rest of the offerings were bought in. *Siam* qualities were mostly bought in, up to 20*l*. being the price for good free smallish, one lot of seed siftings being sold at 65*s*. *Palembang* was all bought in, being held for 22*s*. 6*d*. per cwt.

BLEACHING-POWDER offers at 7*l*. to 7*l*. 5*s*. per ton on the spot.

BORAX.—Quiet. Refined crystals may be had at 17*s*. 6*d*. to 18*s*., powder at 18*s*. 6*d*. to 19*s*. per cwt. For *Boracic acid* the quotations are 29*s*. for crystals, and 31*s*. per cwt. for powder.

BUCHU.—There was no demand at auction for "longs," which are held for 6*d*. per lb. For "round" the demand is not very active, and prices seem to be slightly easier. Fair green sold in part at 3*d*. per lb.; 19 bales were sold out of 36 offered, the rest being held for 3¼*d*. per lb.

CALUMBA-ROOT.—A total of 146 bags was offered. Eighty bags of very ordinary sorts sold at 22*s*. per cwt., the balance being held at 24*s*. per cwt.

CAMPHOR (CRUDE).—Sales of *Japan* camphor have been made at 100*s*. per cwt. c.i.f. for April-June shipment. *China* camphor is quoted at 96*s*. c.i.f. terms, but we have heard of no business being done at this figure.

CAMPHOR (REFINED).—Two casks *German* were bought in at auction at 1*s*. 5*d*. per lb.

CARDAMOMS continue to arrive in large quantity, and there seems little doubt that lower prices will have to rule. At the sales about 200 cases were offered, and, on the whole, emphasised this tendency. *Ceylon-Malabar* realised 2*s*. 4*d*. per lb.; fine bold pale *Ceylon-Mysore*, at 3*s*. to 3*s*. 2*d*.; medium size, 2*s*. 9*d*. to 2*s*. 10*d*.; other sizes, from 2*s*. 3*d*. to 2*s*. 7*d*. *Seeds*: The demand is exceedingly small, and only a few cases sold at 3*s*. 1*d*. per lb., which marks a further decline of about 2*d*. per lb.

CASCARA SAGRADA is again lower, 14*s*. 6*d*. per cwt. being mentioned at the auctions as the limit on 170 bags but this low price failed to bring about business.

CASCARILLA-BARK.—Of 91 packages 33 were offered "without reserve," selling at 40*s*. per cwt. for good bright and fairly bold quill, 25*s*. for thin twiggy, and siftings at 20*s*. to 20*s*. 6*d*. per cwt. The other lots were all bought in.

CINCHONA.—Sixteen serons *Crown* bark sold at from 4½*d*. to 1*s*. 1*d*. per lb. Ten bales flat *Carthagena* bark bought in at 7*d*. per lb., 5*d*. being the price asked. The February shipments of cinchona bark from Java amounted to 456,499

Amsterdam lbs. The following are the figures for the last five years from July 1 to February 28:—

	1896-7	1895-6	1894-5	1893-4	1892-3
Amsterdam lbs.	6,896,922	6,602,050	6,284,889	4,733,808	5,169,111

CIVET.—Arrivals are coming in through Obok; finest quality is offered at 25*s.* per oz. At the sales 2 horns of genuine quality were shown, but no bids being obtainable the lot was withdrawn at the full price of 45*s.* per oz.

COCAINE.—It is stated that whilst refiners have been squabbling amongst themselves some shrewd Hamburg merchants have cornered the crude article, and an important advance in the refined is therefore anticipated. All quotations at the moment are quite nominal. Later, we hear that business has been transacted at 9*s.* per oz. second-hand, but it is said that no more can be had at that price. We hear of other second-hand quotations at 9*s.* 6*d.* to 9*s.* 9*d.*

COCA-LEAVES.—A new arrival of 101 bales *Truxillo* quality were offered, but only 2 bales sold at 6*d.* per lb. The exports from Java from July 1, 1896, to February 28, 1897, amounted to 645 bales, against 825 at the corresponding period of 1895–96.

COLOCYNTH.—With an increasing supply demand is limited. At the sales a lot of 11 boxes of Spanish pith, which has been offered several times, was again taken out without finding a buyer; 5*s.* per lb. was mentioned as the limit. For *Turkey* apple 1*s.* 4*d.* to 1*s.* 6*d.* per lb. was asked, but no business resulted; nor was the demand better for the *Spanish* variety, which was withdrawn at 9*d.* to 1*s.* per lb. for dark to good pressed apple.

CREAM OF TARTAR.—A fair amount of business has been done in this article, and the lowest quotation may be put down at 80*s.* per cwt. for first white *French* crystals, and 82*s.* to 83*s.* per cwt. for powder on the spot. The price at Bordeaux is 75*s.* per cwt., f.o.b. Good white *Spanish* crystals offer at 80*s.*, c.i.f., for 99-per-cent., and 75*s.* for 90-per-cent. to 92-per cent. We understand that business has been done at these prices.

CROTON-SEED.—Twenty-five bags of poor quality were offered, but the late strong demand seems to have died away entirely, and no bids were made. The bulk was held for 75*s.* per cwt.

CUBEBS.—Only 20 bags were offered at the sales, these being of good quality from Singapore. The lot was bought in at 30*s.* per cwt., but it appeared that a bid of 26*s.* was to be submitted to the owners. The exports from Java from July 1, 1896, to February 28, 1897, amounted to 907 piculs, against 2,608 piculs at the corresponding period of 1895–96.

CUTTLEFISH.—Fifty mats of good fair, small, partly broken, sold at dearer prices—viz., 3¼*d.* to 3½*d.* per lb. The last lot that was sold realised 2¾*d.* The article is scarce.

DRAGON'S-BLOOD.—A recent arrival of 20 cases *Lump* was offered in to-day's sales, but the quality was not really fine, for which there is a good demand. Three cases good bright, but very seedy, were held for 11*l.*, but after the sales 1 case sold at 10*l.* 5*s.*; for the remainder there was no bid, and it was taken out without mention of price. There has been a new arrival of about 7 cases, but quality is not yet known. *Reed* of fine quality is held in second hands for 11*l.*, and the lot in last sales of poor quality is held for 8*l.* 10*s.*

ERGOT OF RYE.—A good business has been done privately at 5¾*d.* per lb. for sound *Russian*. At the sales 43 bags *Russian* were bought in at 6*d.* to 7*d.* per lb.; and of 29 bags *Spanish* 5 bags medium bold, but weevily, sold at 7¼*d.* per lb., and 3 bags very bold, weevily, at 9*d.*

GALLS.—Green and white galls continue to be in request, but there are practically none offering on the spot. Some business has been done on the spot in good blues at 48*s.* per cwt. The quotations are as follows: Blue, 48*s.* to 50*s.*; green, 42*s.* to 46*s.*; white, 40*s.* to 44*s.*; and sorts at 46*s.* to 48*s.* per cwt.

GLYCERINE continues to be entirely without demand, the explosive people not having been on the market for some time. One of the *German* manufacturers quotes 61*s.* for double-distilled, s.g. 1 260, but *English* brands can, and have been, bought at 58*s.* per cwt., which is decidedly lower.

GUARANA is very slow of sale, both here and on the New York market. The spot-quotation is 1*s.* 9*d.* per lb., while New York offers have been made at 1*s.* 7½*d.*, c.i.f.

GUM CHICLE.—The New York market continues to advance, and the present quotations for good quality run from 28c. to 30c. per lb., at which small transactions are said to have been made. At the close, however, quotations are easier, and there are sellers at from 25c. to 26c. per lb. The arrivals have been large lately, and heavy consignments are expected in the course of the present month.

IGNATIUS-BEANS.—Fifty-six bags, just arrived from Manila, were offered without result. Some few weeks ago there were several orders on the market from America at 4½*d.* to 5*d.* per lb., but as second-hand holders asked more than this, the orders were covered in Germany, and the demand has subsided. The lot was bought in at 6*d.* per lb.

INSECT-FLOWERS are very firmly held in Trieste, and some of the agents quote higher rates, which, however, have not yet been paid. For closed flowers prices now run from 140*s* up to 165*s.* per cwt.; for half open, 130*s.* to 140*s.*; and for open flowers, 105*s.* to 120*s.* per cwt. c.i.f.

IODINE.—The long-anticipated breakdown has commenced—we say "commenced," because 1½*d.* per oz., which is the amount of the reduction announced by the Convention, will scarcely be sufficient to stave off the shipments of the outside parcels, which have lately been thrown on the London market, and we should not be surprised to hear of a further reduction during the next few weeks. No doubt it is thought that, in lowering the price by only 1½*d.*, those interested will have before them the important allowances which they will have to make on the last three weeks' purchases. *Iodide of potassium* now offers at 9*s.* 9*d.* per lb. in 1-cwt. lots (14 lbs., 10*s.*), and smaller wholesale quantities at 10*s.* 3*d.* per lb. The quotations for the other iodide preparations are as follows:—Sodii iodid. (28 lbs.) 11*s.* 4*d.*, smaller quantities 11*s.* 7*d.* per lb. Hyd. iodid. rub., 9*s.*; ammon. iodid., 14*s.* 6*d.*; ferri iodid., 11*s.* 8*d.*; plumbi iodid., 8*s.*; sulphuris iodid., 12*s.* 6*d.* per lb., subject to 5 per cent. cash, prompt fourteen days. *Resublimed iodine*, 11*s.* 6*d.* per lb. net for not less than 28 lbs.; less quantity, 11*s.* 9*d.* *Iodoform*, crystal or powder (28 lbs.), 13*s.* 4*d.* per lb. net; less quantity, 13*s.* 7*d.*

IPECACUANHA.—The deliveries this month have been very good considering the general dulness of trade, and the stocks are 360 against 510 bales last year. *Rio*: of 44 bales offered, a fair proportion sold at from 5*s.* to 5*s.* 4*d.* per lb. for ordinary thin wiry to fair bold root, a rise of from 1*d.* to 2*d.* per lb. *Carthagena*: of 23 bales, only 1 bale (2 c.c. damaged) sold at 3*s.* 6*d.* per lb., the rest being held for 3*s.* 6*d.* to 3*s.* 9*d.* per lb.

JALAP.—For 11 bales fair small heavy, but unworked, 5*d.* per lb. was bid and refused, 5¼*d.* being apparently the price.

LIME-JUICE.—Twenty-seven packages West Indian were offered at auction, and bought in at from 1*s.* 2*d.* to 1*s.* 3*d.* per gallon.

MENTHOL is without animation; 5*s.* 9*d.* per lb., c.i.f. terms, would be accepted for fair quality. No upward movement can be expected for some months, as there has been a considerable over-production in Japan, and unless the producing area is devoted to other cultivation, it is likely that prices will be kept down.

OIL (COD-LIVER) is almost a dead letter; 75*s.* per barrel is the outside quotation for best *Norwegian*, but business could probably be done at 70*s.* Our Bergen correspondent writes, on April 24, that the Finnmarken fishery up to date is very small, as will be seen from the following figures:—

	1897	1896	1895	1894	1893
Millions of fish	1,100,000	3,600,000	7,000,000	2,400,000	1,500,000

It is as yet too early to say whether the Finmarken catch will be a successful one, as next month the fishing will be at its height. The market is still very dull, and no sales are reported. Best *Lofoten* non-freezing oil may be bought at 67*s.* per barrel, f.o.b. The exports from Bergen up to date amount to 2,313 barrels, against 1,870 barrels in 1896. Five casks ordinary *Newfoundland* oil sold at 2*s.* per gallon, without reserve at to-day's drug-auctions.

OIL (OLIVE).—There has been a fairly good demand for *Lucca* on the spot, and business has been done at from 4*s.* 3*d.*

to 4*s.* 10*d.* per gallon, ex wharf. The prospects of the new olive-crop are already being discussed in Italy, where plentiful rains have given the trees a satisfactory appearance, and an abundant blossoming is looked for.

OILS (ESSENTIAL).—*American peppermint oil* is unaltered on the spot at our last quotation—viz., 6*s.* 10½*d.* per lb. *Dementholised peppermint oil* is quoted at 2*s.* 6*d.* per lb., c.i.f., 40-per-cent. at 3*s.* 9*d.* *Star-anise oil*: A good business has been done at 6*s.* 4½*d.* per lb. for distant shipment. *Cassia oil* remains dull on the spot, but is quoted higher by importers—viz., 6*s.*—for 70 to 75 per cent. At auction 5 cases were offered (83 per cent.), being held for 6*s.* 6*d.*; and 3 cases (79 per cent.) at 6*s.* per lb. Under the name of *Bergamot*, 4 cases of a green oil were sold "without reserve," at 2*s.* 1*d.* per lb. *Oil of lavender*: 2 Winchester quarts of "guaranteed English from Mitcham" sold at 8*s.* 6*d.* per lb—a cheap price if genuine! *Citronella*: 11 packages "guaranteed pure" failed to meet with any bids, and were bought in at 1*s.* 6*d.* per lb., 1*s.* 3*d.* being apparently the figure required. *Ylang-ylang oil*: 1 bottle of dark quality was offered at auction, but taken out without mention of price. Nine pots of "rose" oil, "or whatever it may be," were also taken out without mention of price. *Eucalyptus*: 51 cases offered, all of commercial quality, and were bought in at 10*d.* to 1*s.* per lb. *Lemongrass oil*: Business has been reported for arrival at 2⅛*d.*, c.i.f. terms. The spot price remains at 2½*d.* per oz.

OPIUM.—The market continues quiet, with a small business at steady rates. The stock in London is small and in firm hands. The quotations are: finest, 10*s.* to 10*s.* 6*d.*; medium to fine, 9*s.* to 10*s.*; common, 8*s.* to 9*s.* per lb.

ORRIS-ROOT.—We reported last week that business had been done in the *Florentine* variety at about 34*s.* 6*d.* per cwt., c.i.f. terms. This was obviously a clerical error, 54*s.* 6*d.* being the correct price. We apologise for the inconvenience that has been caused. This week fair sales have been made in *Florentine* sorts at 54*s.* to 54*s.* 6*d.* per cwt., ex wharf, while 50*s.* 6*d.* is quoted as the c.i.f. price for picked. The selected variety is very scarce. *Verona* orris-root is lower in price. In one quarter 35*s.* is quoted, rising to 45*s.*, according to quality; while in another quarter prime is quoted at 48*s.* and sorts at 44*s.* per cwt., all c.i.f. terms, London.

OTTO OF ROSE.—It is said that there is likely to be an advance shortly in consequence of the political situation in Bulgaria. More money is being asked in some quarters for otto, it being thought that the expected trouble will affect the new crop.

PODOPHYLLIN.—*American* resin, guaranteed quite soluble and of brownish colour, offers at 9*s.* 6*d.* to 10*s.* per lb. Podophyllin-root is quoted at about 5*d.* per lb.

POTASH-SALTS.—*Chlorate* is quiet but without quotable change, at 4¼*d.* to 4⅛*d.* per lb. on the spot according to quality. May delivery is quoted at 4*d.* *Yellow prussiate* is quoted at 5*d.* per lb. for *Beckton* brand, and at 5½*d.* for other English makes. *Bicarbonate* offers at 4⅝*d.* per lb. *Montreal potashes* remain cheap, and are quoted at 20*s.* 6*d.* to 21*s.* per cwt.

QUICKSILVER is quiet at 7*l.* 5*s.* per bottle from the importers, and 7*l.* 4*s.* in second hand.

QUININE.—There are very few sellers in anticipation of higher prices, and factories are refusing to sell at the current quotations. Second-hand lots from Amsterdam are offering at 8½*d.* per oz., and French brands of quinine at French weights at about the same price. Five thousand ounces *Whiffen's* sulphate of quinine lying at the works was offered at the drug-auctions for "account of whom it may concern," 4,000 oz. selling practically without reserve at 8¼*d.*, and 1,000 oz. at 8*d.* per oz.

SACCHARIN.—The new concern have not yet fixed the prices at which they are going to sell, and, when fixed, no doubt some time will elapse before the quotations will be effectual, as it is known that contracts have been made at the previous cutting rates. It is not likely that the prices will return to the old level.

SAFFRON is tending lower, and finest *Valencia* may be quoted 6*d.* per lb. easier—viz., from 41*s.* 6*d.* to 43*s.* per lb.—and fine ditto at 40*s.* per lb. nominally. No sales are reported.

SARSAPARILLA.—Genuine *Jamaica* continues exceedingly scarce, and in good demand. Fourteen bales were offered at the sales, and met with strong competition, selling at 1*s.* 11*d.* to 2*s.*, the bulk at the former price. This marks an advance of from 2*d.* to 3*d.* per lb. *Lima-Jamaica* sold at 1*s.* 3*d.* to 1*s.* 4*d.*, *Honduras* was held for 1*s.* 2*d.*, and *Guayaquil* sold at from 6*d.* to 11*d.* for damages.

SEEDS (VARIOUS).—*Annatto*: At auction 15 bags of good quality were held for 3½*d.* per lb. *Aniseed*: 52 bags *Russian* were bought in at 16*s.* per cwt. *Dill*: 19 bags sold at 13*s.* 6*d.* per cwt., subject to approval. *Cumin*: Of 142 bags offered 52 bags are held for 34*s*; whilst for 32 bags inferior quality 20*s.* was suggested for the lot without response. *Fennel*: 14 bags sold at 12*s.* per cwt. *Mogador Fenugreek-seed* is being offered at 8*l.* 17*s.* 6*d.* per ton, f.o.b. Hamburg. *Maltese cumin-seed* is quoted at about 21*s.* per cwt., also f.o.b. Hamburg. *Coriander-seed* is quoted at 6*s.* 6*d.* per cwt. net, c.i.f. London, for prompt shipment from Mogador.

SENEGA-ROOT offers at lower prices from America—viz., 11½*d.* per lb., c.i.f. terms; 1*s.* 1½*d.* is the quotation on the spot.

SENNA.—The demand for *Tinnevelly* continues good, and the statistical position becomes stronger as the season advances. At the sales nearly 200 bales, mostly in second hands, were offered. Medium leaf of fair colour sold at 3½*d* to 3¾*d.* per lb., better qualities being held for long prices. Small leaf sold from 1*d.* for discoloured to 2*d.* for fair green. *Pods*, fair quality, sold at 1¾*d.* per lb. *Alexandria* stock of this description is increasing, but privately very little business has been done. At the sales 3 bales darkish broken leaf sold cheaply at 4½*d.* per lb., and 4 bales fair siftings at 3*d.* per lb. Pods are scarce, and 8*d.* to 8½*d.* per lb. is asked for good.

SHELLAC.—At the public sales which were held on Tuesday, a total of 1,545 cases was catalogued, only 193 cases finding buyers. Of second *orange*: 349 cases were offered and 53 sold, including good bright cakey, at 60*s.* to 61*s.*; TN qualities—of 925 cases offered 140 sold; fair red free TN at 63*s.*; ordinary livery to fair reddish at 58*s.* to 60*s.* per cwt.; curly livery but blocky at 56*s.* per cwt. *Garnet*: 61 cases offered and were bought in; blocky AC at 70*s.*; good free PB, G at 67*s.* *Button*: 210 cases offered and were all bought in, good firsts at 80*s.*; fair at 75*s.*; mixed seconds at 74*s.*; and blocky firsts at 65*s.* to 66*s.* A slow demand prevailed throughout the sale; in one instance fully last sale's prices were paid for second *orange*, but generally easier rates were accepted, the average decline being about 2*s.*, fair TN being now quoted at 60*s.* to 61*s.* per cwt. The market for arrival has remained extremely quiet, and only 100 cases second *orange* are reported sold, April-June steamer, at 60*s.*, with closing sellers at 59*s.* per cwt.; *Calcutta* remains steady, at 60*s.* to 61*s.*, c.i.f. The speculative market has also continued quiet, and a small business has been done, prices closing again easier. The sales include 200 cases TN August delivery, at 62*s.* to 62*s.* 6*d.* per cwt.

SODA-SALTS.—*Caustic* soda is reported firmer, and the article is well sold for early delivery. Seventy-six per cent., 8*l.* 15*s.* f.o.b. Liverpool or Tyne; 74 per cent., 8*l.* 5*s.* f.o.b. Liverpool; 70 per cent., 7*l.* 5*s.* f.o.b. Liverpool. *Nitrate*: Ordinary, on the spot, is quoted at 7*l.* 17*s.* 6*d.*; refined, at 8*l.* to 8*l.* 2*s.* 6*d.* per ton. *Soda-crystals*, in barrels, 52*s.* 6*d.*; bags, 50*s.* ex ship, or Crescent wharf; Tyne, 52*s.* 6*d.*; Liverpool, 57*s.* 6*d.*, f.o.b., to 6*l.* 10*s.* *Hyposulphite of soda* still offers at low rates, the nominal prices on the spot being from 5*l.* 7*s.* 6*d.* per ton for casks and 5*l.* 15*s.* for kegs. *Bicarbonate*, 7*l.* 5*s.* landed terms. Fifty-eight per cent. *Alkali* is quoted at 3*l.* 17*s.* 6*d.* per ton in bags free on rails, or 4*l.* per ton f.o.b. Liverpool.

SPICES.—*Zanzibar cloves*: At auction 180 bales were offered, and all bought in, ordinary dull to fair bright at 2⅛*d.* to 2⅜*d.* per lb. Fifty-nine cases *Penang* were also bought in, fair picked at 7*d.*, good to fine at 8½*d.* to 9*d.* per lb. *Cassia lignea*: 100 bales of good broken were bought in at 30*s.* per cwt. There has been an arrival of 1,380 boxes from Hong-Kong by the *Promethus*. *Ginger* remains dull of sale, and at auction went off flatly, except as regards *Jamaica*. 917 bags of rough *Cochin* were almost all bought in, ordinary rough limed at 30*s.*, washed at 32*s.* per cwt.,

only 61 bags finding buyers, consisting of small and shrivelled pickings at 20*s*., and damaged rough at 28*s*. per cwt. Seventy cases of *Native* cut sold, without reserve, at slightly easier prices—viz., 32*s*. 6*d*. for small limed, chiefly cut, and good bright medium at 50*s*. per cwt. Of *Jamaica*, the large supply of 702 barrels was all sold, with strong competition, at an advance of 2*s*. 6*d*. to 7*s*., and occasionally 10*s*. Ordinary to good *Rhatoon*. 73*s*. to 77*s*. 6*d*.; dark bold rough, 82*s*. 6*d*.; common dark to small dullish, 81*s*. to 85*s*.; dullish to middling washed, 87*s*. 6*d*. to 92*s*.; fair, 97*s*. to 98*s*.; good bleached, 110*s*. to 112*s*. 6*d*.; and bold, 6 . 5*s*. to 6*l*. 15*s*. per cwt. *Chillies* quiet. Sixty-six bales damaged *Zanzibar* sold at auction at 16*s*. 6*d*. to 23*s*. Forty-seven bags fine *Sierra Leone* were bought in at 45*s*., and 21 cases bright *Japan* at 55*s*. per cwt. *Cinnamon*: 25 bags ordinary coarse *Ceylon* chips sold at $2\frac{7}{8}$*d*. per lb.

Sulphonal still offers at 7*s*. 9*d*. per lb. for prompt delivery, but makers are not anxious sellers, and now decline to make further forward contracts. A large business, however, has been done during the past few days, and a not unimportant rise is thought probable shortly.

Tragacanth.—A good business has been done in most qualities. The quotations are: firsts, 13*l*. 10*s*. to 14*l*.; seconds, 11*l*. 15*s*. to 12*l*. 15*s*.; thirds, 10*l*. to 11*l*.; fourths, 8*l*. to 9*l*. 10*s*.; yellow and pinky, 6*l*. to 7*l*. Small sales of *Hog* gum are reported at irregular prices.

Valerian. — Valerian-root from Central America (a country not hitherto known as a source of supply) has lately been offered on the European market. The root, however, is not considered suitable for pharmaceutical purposes. Good *Continental* root offers at 23*s*. 6*d*. to 23*s*. per cwt.

Vanilla.—This article was in small supply, the total offerings being only 71 tins. These sold at steady average prices. *Bourbon* beans, $7\frac{1}{2}$ inches to 8 inches, realised 27*s*.; 8 inches, 28*s*.; $8\frac{1}{2}$ inches, 30*s*. per lb. *Madagascar*, $5\frac{1}{2}$ inches to 6 inches, 23*s*. to 24*s*. per lb.

Vanillin is quoted down to 3*s*. 1*d*. for genuine in quantities, but still lower quotations are said to have been made for mixed qualities, which have had a depressing effect.

Various Drugs.—*Ambergris*: Five tins were offered, two being without reserve, but even for the latter no bid was obtainable. The market for this article is exceedingly dull at the moment, the demand usually coming from the United States, which market is now filled with direct shipments. *Ammoniacum*: Three cases, good pale to darkish drop, part blocky, were held at auction for 65*s*. per cwt. *Cassia fistula*: Thirty baskets of fair lean pods were bought in at 8*s*. 6*d*. per cwt. *Condurango bark*: This article is seldom seen on this market, but at the sales 80 bags, representing 8,000 lbs., were offered, and were bought in at 5*d*. per lb. There have been fresh arrivals in Hamburg, where the article can be had at $3\frac{1}{4}$*d*. per lb. *Cusciuus* root: 25 bales of cleaned are held for 30*s*. per cwt. *Cowhage*: 1 tin of this article mixed as usual with beans, were held in auction at 3*d*. per lb. *Cannabis indica*: 95 robbins were offered, 10 without reserve; very brownish on stalk sold cheaply at $1\frac{3}{4}$*d*. per lb., the balance of good green quality being held for $3\frac{3}{4}$*d*., but privately business has been done in this quality at 3*d*. per lb. from second hands. *Chiretta*: Fifteen bales offered, and were bought in at 2*d*. per lb. for more or less country damaged. *Elemi*: Twenty cases were offered in sale and bought in at 27*s*., the price asked being 25*s*. From Hamburg this article offers in 50-case lots at 24*s*. per cwt., f.o.b., there. *Kreat*: This article was offered to-day without reserve as 20 bales "roots." No bid could be obtained for the same, although 1*d*. per lb. was suggested. We commented on this identical parcel in our issue of October 17, 1896. *Kola-nuts*: 26 barrels of good washed were sold in auction at $3\frac{1}{4}$*d*. to $3\frac{1}{2}$*d*. per lb., without reserve; à further 138 packages were bought in, at from 3*d*. to 9*d*. per lb. for dull *African* to good *West Indian*. The article is exceedingly quiet. *Rose-leaves*: There is not much inquiry, the price for *French* being nominally 1*s*., and 1*s*. 1*d*. per lb. for *Dutch*.

Wax (Bees').—Business has been done privately in *Chilian*, finest quality, guaranteed pure, at 6*l*. 15*s*. to 7*l*. per cwt., ex wharf. At the sales about 900 packages of various qualities were offered, the bulk being bought in. *Jamaica*: 7 packages sold at 8*l*. to 8*l*. 7*s*. 6*d*. per cwt. *Australian*: 16 cases sold at 7*l*. per cwt. *Zanzibar* sold at 6*l*. 2*s*. 6*d*. *Aden*: 5 packages at 5*l*. 17*s*. 6*d*. per cwt. When 7 casks *Saffi* were offered, the broker who gave evidence in the late libel case was greeted with laughter and the question, "Do you guarantee it genuine?" Six cases fine genuine bleached wax sold cheaply at 7*l*. 15*s*. per cwt., last price paid being 8*l*. 15*s*. Firmer for all grades. *Madagascar* beeswax is now in comparatively small supply; the quotations run from 6*l*. 7*s*. 6*d*. to 6*l*. 10*s*. for clean bright yellow, down to 5*l*. 15*s*. to 6*l*. for dark grey.

Wax (Japan).—Sales have been made on the spot at 38*s*. 6*d*. per cwt. For arrival the quotation is 34*s*. per cwt. c.i.f. terms.

The Liverpool Drug-market.

Our Liverpool correspondent writes on April 28 that *Castor oil* during the week has made a distinctly upward move, and good seconds Calcutta has advanced to 3*s*. per lb., first-pressure *French* $2\frac{7}{8}$*d*., *Bombay* $2\frac{3}{4}$*d*., and *Madras* is still held for $3\frac{1}{8}$*d*. per lb. *Soudan gum* sorts have an improving tendency, business having been done to a moderate extent in fair medium quality at 62*s*. 6*d*. per cwt. The *Canary-seed* market continues very steady on the spot, and sales have been made at 27*s*. 6*d*. to 28*s*. per quarter for good bright Turkish. *Cream of tartar* is practically unchanged, at 82*s*. per cwt. for first white *French* and *Spanish* of full strength. *Balsam capivi* at auction met with little encouragement from buyers, and the parcel just landed from Maranham, consisting of four casks and eight cases, was bought in at current rates, the holders showing great firmness. *Cochineal*, both black and grey Teneriffe, are firmly held for 1*s*. 1*d*. to 1*s*. $1\frac{1}{2}$*d*. *Beeswax* is in good demand, and sales of *Chilian* at 6*l*. 17*s*. 6*d*. to 7*l*. 10*s*., according to quality, and *Gambia* at 6*l*. 12*s*. 6*d*. per cwt. with small arrivals. *Sulphate of copper* is easier, at 17*l*. 5*s*. per ton. *Arsenic* is steady, at 24*l*. per ton net. *African ginger* of one grade has sold at the low price of 17*s*. per cwt. *Sierra Leone chillies* are without fresh feature, at 35*s*. to 37*s*. for good bright. *Kola-nuts* are selling as they arrive at $2\frac{1}{2}$*d*. per lb. for good dry. *Calabar-beans* find buyers in small lots at $1\frac{1}{2}$*d*. per lb. *Fenugreek* seeds are arriving, and good *Alexandrian* are offered at 8*l*. per ton.

Heavy Chemicals.

Heavy chemicals continue in fairly brisk request, though the demand is, perhaps, scarcely up to the average for this time of the year. Export orders are fairly numerous, especially for the United States, whilst those for the Baltic and northern ports, although moving freely, are somewhat behindhand. For the home trade the demand for miscellaneous products generally is very moderate, considering the decrease in demand from the textile consumers, owing to the unsettled state of affairs in the East. General reports, more particularly from the Clyde and the Tyne, are more encouraging, and Lancashire works are kept fairly busy. *Bleaching-powder* maintains a firm position at the recent advance, and is in good demand. *Caustic soda* very steady. *Soda crystals* in brisk request, and firm. *Recovered sulphur* still scarce, at late quotations. *Sulphate of ammonia* is dull, and stands at a slightly lower figure than last week. Exports from Leith during the past week amounted to 382 tons. *Cream of tartar*, crystals and powdered, quiet, but unchanged. *Sulphate of copper* fairly steady, at late rates. *Benzols* tend lower, and demand is falling off. *Sulphate of alumina* is on the increase. *Anthracene* weak; present price, 30-per-cent. A, $6\frac{1}{2}$*d*. to 7*d*., and B 5*d*. *Solvent naphtha* firm: 95-per-cent., 1*s*. $8\frac{1}{2}$*d*. to 1*s*. 9*d*.; 90-per-cent., 1*s*. $7\frac{1}{2}$*d*. *Crude naphtha* steady: 30-per-cent., 1*s*. $1\frac{1}{2}$*d*. to 1*s*. 2*d*. *Aniline oil* and *Salts* lower; the former now stands at $7\frac{1}{2}$*d*., and the latter at $6\frac{1}{2}$*d*. *Creosote* active. *Carbolic acid*, crystals and crude, is in brisk demand, with prices firm, but unchanged from quotations in our issue of April 17. *Linseed* and *Cotton-seed cakes* meet with moderate inquiry, at unchanged rates. *Acetate of lead*, brown and white, is somewhat quiet, as is also the *Nitrate of lead*. *Acetate of*

lime very firm, and maintain upward tendency. *Silicate of soda* are moving more freely, but prices, so far, remain unchanged. *Sulphocyanides* weak. *Yellow prussiates of potash* and *soda* fairly steady. *Chlorate of potash* easier. Increased demand for *Hyposulphite of soda* continues. *Phosphorus*, wedges and sticks, selling freely.

The Amsterdam Market.

Our Amsterdam correspondent, writing on April 27, states that at the Java cinchona-auctions to be held in his city on May 6, 5,601 bales and 233 cases, weighing in the aggregate 524,362 kilos. of bark, will be offered. They represent a total of 28,892 kilos. of sulphate of quinine, or an average for the *Manufacturing* bark of 5 60 per cent., which is above the average. The *Pharmaceutical* bark consists only of 17,255 kilos., representing 486 kilos. of quinine. The general position is extremely firm, and it is expected that there will be a very good competition at the sales, and that the unit will again exceed that of the April auctions. Provided the April shipments from Java remain moderate, there will only be sufficient first-hand stock in Amsterdam to provide for small auctions in June and July. At present it would seem that there are only small Java shipments in prospect. The demand for quinine is said to remain very good, and rumours are current that the price will again be advanced. The next cocoa-butter auctions will consist of 40 tons of *Van Houten's*, 10 tons of *Hamer's*, 10 tons of *Dutch* factory, and 7 tons of foreign brands. The market is firm, but the demand is small.

The Smyrna Opium-market.

Our Smyrna correspondent writes, under date of April 17, that the American buyer of last week is still supporting the market, having bought to the extent of 61 cases, comprising *Talequale*, *Karahissar*, *Adette*, and *Yerli*, at the parity of from 8*s*. 1*d*. to 8*s*. 3*d*. per lb. for choice qualities. The same buyer has bought 40 cases *Talequale* from Constantinople, paying a slightly higher price for the soft-shipping quality. This shows that the Constantinople merchants are losing no opportunity of making sales. Letters from Salonica, dated April 13, announce that the present harvest will be the largest the country has ever known. It is thought that there will not be sufficient labour to gather it, if political events continue in the same condition. Advices from the higher lands are still more optimistic, and, allowing for exaggeration, the exceptional weather which prevails at the places of production promises also a great harvest. The first arrival of the new crop is expected about May 20, which will be unusually early. The arrivals up to date amount to 2,455 cases, against 3,730 at the corresponding date of last year. The stock is mostly in the hands of strong holders.

The New York Drug-market.

Our New York correspondent writes, under date of April 23, that *Curaçao aloes* are in a strong position, stocks being light and well concentrated The quotations are 3c. for ordinary black stock, and 4c. to 5c. for livery. *Balsam copaiba*: all grades rule firm. It appears bottom has been reached, and there are now several buyers at last prices paid. *Wahoo bark* of the root is lower owing to freer offerings; 14c. will now be accepted. *Californian honey* (white): the new crop is still a few months off, and the prospects are that it will be an abundant one, owing to favourable weather in Southern California. *Lobelia herb* offers from the primary market in a limited way, which may be new crop; the price now is 12c. *Newfoundland cod-liver oil* is quiet and unaltered. *Cotton-seed oil*: there is a steady demand, and values are unchanged. *Peppermint oil* bids fair to be higher in the near future. The statistical position of the article is strong, but there is no demand worth mentioning. The new crop will likely be shorter than for several years, as the prices now ruling are claimed by farmers to be below cost of production. For HGH brand $1.50 is quoted; *Wayne County* at $1.15; and *Western* $1.05. *Golden-seal root* is not wanted in any large way, and 27c. is now again possible. *Mandrake-root*: new crop offers at 7½c., but for good fall-dug stock 9c. is being realised. The market, however, is weakening steadily. *Senega-root* neglected. *Spermaceti* declining to 30c. from manufacturers. *Beeswax* rather strong at 27c. to 30c., according to quality.

Forfarshire Chemists' Association.

A MEETING was held at the Queen's Hotel, Dundee, on Wednesday, of the chemists of that town and other leading towns of Forfarshire for the purpose of forming an association to take the place of the Dundee Chemists' Association, which was founded twenty years ago, but has done little or no work within recent years. The meeting was fairly representative, and was presided over by Mr. Charles Kerr, who was supported by several of the members of the North British Branch Executive. Mr. James Russell acted as Clerk of the meeting, and the proposed regulations were gone through after the meeting had resolved to form a new Association.

The following office-bearers were appointed:—President, Mr. Charles Kerr; Vice-President, Bailie Doig; Secretary and Treasurer, Mr. James Russell; committee, Bailie Ferrier, Messrs. J. M. Hardie, A. B. Anderson, Wm. Cummings, J. W. Russell (Dundee), Wm. Park (Broughty Ferry), J. Jack (Arbroath), A. Davidson (Montrose), J. Ford (Kirriemuir), G. H. Fowler (Forfar), Walter Ferrier (Brechin), and W. R. Kermath (St. Andrews).

The following were elected honorary members:—Messrs. D. Storrar (Kirkcaldy), J. Johnston (Aberdeen), W. L. Ewing (Edinburgh), J. Rutherford Hill (Edinburgh), Frank W. Young, F.R.S.E. (Dundee), W. L. Currie (Glasgow), J. Bowman (Leith), and J. H. Fisher (Dunfermline).

Our detailed report of the proceedings is unavoidably held over.

After the meeting those present sat down to a good dinner in the hotel, Mr. Charles Kerr presiding, and Bailie William Doig acting as croupier. The toast-list contained nine items, and after the loyal and patriotic toasts Mr. James Jack, F.L.S., Arbroath, proposed "The Pharmaceutical Society," to which Mr. J. Laidlaw Ewing responded. Mr. David Storrar proposed "The Forfarshire District Chemists' Association." Mr. Kerr, in the course of his response, said that the object of the meeting had been to extend the Dundee Chemists' Association so as to embrace the county of Forfar. This had long been a much-desired object, and they had reason to be thankful for the response which they had received. Some would not come in because they were not in the town, and, although they wished the Association all success, could not see what good it would do them. He appealed to such, even at the eleventh hour, to give them the influence of their names, as they would make a power for good in any movement which might be inaugurated for the benefit of the craft. Another thing had deterred many from joining—viz., a feeling amongst them that the Association was formed as a sort of inquisitorial court to interfere with the freedom of members in the conducting of their business. That was a wrong impression. The Association would be worked on constitutional lines, and every member could have a voice in all its actions. They had a broader idea of the working of an association of this kind than petty interference with anyone's mode of conducting business. Their sole object was to promote the general good, to raise the tone of the trade, and to further good fellowship in the craft. (Applause.)

Other toasts were:—"The North British Branch and Board of Examiners," by Bailie Doig, to which Mr. A. Davidson (Montrose) replied; "The Federation of Chemists' Associations," by Mr. J. R. Hill, Mr. W. L. Currie (President) replying; "The Scottish Universities and Educational Institutions," by Mr. Kermath (St. Andrews), reply by Mr. F. W. Young, F.R.S.E.; "The Chairman," by Mr. J. H. Fisher (Dunfermline); and "The Croupier," by Bailie Ferrier.

THE VALUE OF ANTISTREPTOCOCCIC SERUM in the treatment of puerperal fever has again been testified to, this time by Dr. G. H. Mapleton, of Goudhurst, who, in a note communicated to the *British Medical Journal*, gives particulars of a case which exhibited steady reduction of temperature after the administration of three successive daily injections, 20 c.c. each, of Messrs. Burroughs, Wellcome & Co.'s serum.

Correspondence

Notice to Correspondents. *In writing letters for publication, correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.*

The By-laws.

Sir,—As in your current issue Mr. Gascoyne puts a direct question to me, perhaps you can afford me a little space—not so much as you allot to my friend, for the "case" is not so weak, and does not require such volubility.

Mr. Gascoyne says I stated at Nottingham "that the *Pharmaceutical Journal* depends for its income on advertisements and sales alone, and not on annual subscriptions." Quite so. A self-evident fact; as there are no subscribers (directly) to the *Pharmaceutical Journal* as there are to, say, The Chemist and Druggist. A balance-sheet, therefore, in which sales and advertisements only are given on one side, and expenses on the other, may well show an adverse balance, and this adverse balance must be met out of annual subscriptions to the Society whose journal it is, just as is done in the case of any society in the land. Mr. Gascoyne then goes on to say "it would be interesting to know who, in Mr. Eberlin's opinion, pays the 3,598*l.* which the *Journal* costs the Society over and above the receipts from advertisements and sales." Why, the 4,919*l.* received from members as annual subscriptions, to be sure. And in addition to paying this "adverse" balance (so-called), it pays the cost of the library and museum (840*l.*), and still leaves a small sum in hand; and these are the only items which its members alone should be called upon to pay, for all others (school included) are as much, in part, the affairs of Mr. Gascoyne and every other non-member as mine. And now permit me an observation on the general question of raising of fee. It has struck me very forcibly, Mr. Editor, that a journal usually so quick of perception regarding the law of "cause and effect," and the principle of "supply and demand," should have entirely failed to see what will the secondary effect of this raising offer. Why, Sir, as sure as night follows day, it will be to raise the price of assistants, and thus the employer finds the increased fee after all; and rightly so, too. It is this underlying fact which makes your championship of the cause of the "poor candidate" fall so flat, and instead of inspiring the candidate with heartfelt gratitude to you, is rather alienating him from you. I speak this from contact with a good many students now preparing for the ordeal, and the unanimity with which they approve of the proposed alterations is very striking. If, therefore, the registered chemists as a body approve (and signs are not wanting that they do), and if the future candidate approves, what more can one desire? An able contemporary of yours said recently, "Quare fremuerunt gentes." I reiterate the phrase.

Yours very truly,

Nottingham, April 26. Albert Eberlin.

Sir,—Mr. Gascoyne, in his letter to you last week, made several statements which, though evidently conclusive enough to himself, appear to some of the craft who "blindly follow the Council" to be more or less erratic. Why a portion of the members and associates of the Pharmaceutical Society should be gifted with the power to discover the absurdity of the proposed increased Minor fee, and why that portion should constitute such a large minority, he does not appear to explain in any other manner than by assuming that chemists in general are so weak-minded that they may be led hither and thither according to the dictates of the Council. Experience, however, has proved over and over again that if the Council do anything at all which the generality of chemists consider detrimental to their interests, a very severe criticism is the result. Mr. Gascoyne says, "It is the members and associates who do not pay." Exactly; and the object of the proposed increase is to make them pay. If every chemist had done his duty in the past, we should now have had not only more money, but more power; and here one might remark that it is difficult to see why any chemist outside the Society should have the right to criticise the actions of the Council, for by not subscribing he tacitly assents to the appointment of anyone as a member of the Council, and so has only himself and his companions to blame if the wrong men are elected.

With respect to the *Pharmaceutical Journal*, I can only say that if a chemist reads his *Journal* every week he receives a very appreciable amount of intellectual nutriment, and as one object of the Society is to raise the standard of its individual members and increase their knowledge of current scientific events, it is morally incumbent on the Society to continue the publication of the *Journal*, whether it "pays" (in the sense Mr. Gascoyne implies) or not.

Your correspondent very ingenuously inquires how it is possible to raise a man's status by "taking five guineas out of his pocket." Might I ask him if any article valued at five guineas is worth as much as one valued at ten, or whether the status of the man whose education has cost 50*l.* is equal to the status of the man who has had three hundred spent on him, other things being equal? Certainly not; and it also follows that the status or social standing of the chemist will rise or fall according to the greater or less difficulty in obtaining the qualification.

Mr. Gascoyne says, "It is not proposed to alter the Minor examination." You say, in your leader of the same number, "The Pharmaceutical Society propose to considerably extend the scope of the examination." These two statements require no comment. He goes on to say also that the Society have no power to grant further protection to the examinee. Does it not strike him as possible that if the Society had more money it would have more power, and so be the more able to cope with the many questions which surround it.

Finally, I should like to remind Mr. Gascoyne that when the examinee becomes qualified he can have a voice in the direction of the Society's expenditure, inasmuch as he can vote for those candidates whose views most nearly coincide with his; but should he not care to belong to the Society, then he should not blame those members who are loyal for the manner in which such Society is conducted.

Yours faithfully,

F. Pilkington Sargeant,

Manchester. Member Pharmaceutical Society

The Council Election.

Sir,—I am sorry to hear that my respected friend Mr Gostling retires from the Council, but I cannot agree with his views as regards the desirability of electing London men in preference to country men. We do not want subservient followers of the Council, but men of independent judgment who have had some experience in public business. The question of distance is a small one, as a Cambridge representative could be on the spot when wanted almost as quickly as a London man (suburban). Although not personally acquainted with the Cambridge candidate (Mr. Campkin), he certainly strikes me as far and away the ablest man. He is a justice of the peace for the borough, a Past Grand Master of the Manchester Unity of Oddfellows, a guardian of the poor and chairman of the Assessment Committee, a director of the Manchester Unity of Oddfellows, a member of the Town Council, &c.

This gentleman, it appears to me, would be a welcome addition to the Council-chamber.

Yours faithfully,

Norfolkensis. (105/39.)

Sir,—I was extremely pleased to read in your issue of April 17 that Mr. Warren states it is his desire "to forward as soon as possible a measure that shall give to all qualified men the privilege to become members of the Society and to be eligible for a seat on the Council."

Whatever may be thought of the advisability of having two examinations, Major and Minor, the advantages of which personally I very much question, there is no doubt the Minor is the examination *par excellence*, and is tending to become more and more so. It is vastly stiffer now than the

Major was when those now on the Council obtained their Ph.C. It is the examination which gives the chemist his qualification as a chemist, and Minor men, who form the majority of the craft, ought at least to be eligible for membership of the Society. What is the use of preaching to men to join the Society when they cannot even become "members" of it—and how can chemists be expected to take an interest in it while they are kept at arm's length as associates merely? When Mr. Warren's measure becomes an accomplished fact, I am confident we shall see his ideal realised of "a strong Pharmaceutical Society supported by an increasingly loyal and educated membership."

More power to his elbow, say I.

Yours, &c.,

April 26. SPERO. (107/51.)

Company Pharmacy in Ireland.

SIR,—Seven centuries of oppression have so inured the Irish to injustice that we have come to look upon betrayal as a mere commonplace, and loyalty as an illusion. The Hebrews, we are told by neurologists, exhibit the nervous diathesis of a hunted race; and the Hibernians, by their faculty of fissiparousness, their lack of lealty, and their deep-rooted distrust of one another, crystallise and typify, even in their smallest societies, those tendencies which have made them the prey of the conqueror.

Thus it comes to pass that when the gentlemen whom we elected to the Council of the Pharmaceutical Society to oppose company pharmacy, as inimical to our best interests, the gentlemen who in the excess of their zeal to attain that end prosecuted most reputable medical firms, such as Fannin & Co., and persecuted the assistants of the most respectable company chemists in Ireland, such as Hamilton Longs, Grattans, and Harringtons, when these gentlemen, I say, turn their own business into a limited company, offer it to the public, yet pretend that those who have bought it are not proprietors, and utilise their very positions as ex-president, or examiner, or as councillor, to induce the public to believe that their venture has the sanction, the *imprimatur*, the benediction, and the best wishes of the Pharmaceutical Society of Ireland, instead of hurling them from their positions of power, we begin to bandy words and suspect one another of being but outrun in the race of turpitude.

After this preliminary, permit me to say that what I object to is not that Messrs. Hayes, Conyngham, and Robinson have amalgamated their businesses, and not that they have raised 30,000*l.*, but that they have, by forming a limited company, established a precedent which enables every grocer, every draper, every capitalist, and every English drug company, which has ruined pharmacists in Great Britain, to practise pharmacy here. We know what havoc and desolation these companies have wrought in England, yet chemists there are beginning to recover from the onslaught, whilst the *débâcle* is all before us. I am aware that Mr. Hayes endeavours to establish a distinction between his company and others, but the attempt is futile and fallacious. In refutation, I need refer him to no more unfriendly source than your article of last week. The while Mr. Hayes makes a laborious and unsuccessful attempt to prove that his company is qualified, you dogmatically lay it down that no company can be qualified, for a qualification pertains to a person.

Mr. Hayes makes a disingenuous attempt to make us believe that the Pharmaceutical Council condoned such conduct as his by passing one of his resolutions, whilst he is compelled to admit that they substituted "company" for "directorate," thus altering its character completely. I cannot possibly conceive how a company can take apprentices in the existing state of the pharmacy law. You, sir, suggest that they should be apprenticed to individuals, but you do not seem to recollect that the individual would be required to make an affidavit that all the proprietors were qualified. How could a conscientious man like Mr. Hayes take such an oath when half his proprietors were unqualified? Again, the apprentice must have been engaged in compounding prescriptions for four years. But it follows from the decision in the Courts, as laid down in the *C. & D.* DIARY, page 492, that in a limited company the individual who actually compounds a prescription must himself be qualified. In no case then could an apprentice be permitted to compound, dispense, or sell a prescription; and not only would he not be permitted to sell poisons, but he may not even mix them. To say that an apprentice might be allowed to do these things for practice but not for sale, would be absurd, for if so he had better learn his pharmacy at a school for the purpose.

I would ask Mr. President Wells if such does not follow from the wording of the Pharmacy Act.

Company promoters have not yet, I think, realised the difficulties that may be imposed on them by a rigid, literal, and unsympathetic interpretation of the Irish Act. Thus the person who compounds a prescription must be qualified, the person who dispenses it likewise, and also the party who sells it; the manager of the company will also have to be an L.P.S. Furthermore, all these gentlemen must have their names and registered addresses set forth on the label. One wonders what the appearance of a box containing two pills would be when it bears the name and address of A, who mixed them, B, who dispensed them, C, who sold them, and D, who kept open shop for their sale, together with the name and address of the company under whose ægis the thing was done.

Yours truly,

19 North Earl Street, Dublin. JAMES C. MCWALTER.
April 24.

SIR,—There is not a shadow of doubt that company pharmacy will injure the Irish chemist and his assistant. To any little hopes the latter had he may now say farewell, a long farewell. What chance has he with his few hundreds against these companies? I think Mr. McWalter was perfectly justified and to be admired for stating the fact he did, and giving his suggestions.

Yours very truly,

RAT ANY. (107/1.)

[The remainder of "Rat Any's" letter consists of aspersions on our other correspondents, for which no basis is suggested. —ED. *C. & D.*]

SIR,—I have noticed a statement in your issue of April 17, to the effect that a meeting of the Pharmaceutical Chemists' and Apothecaries' Assistants' Association of Ireland was summoned to discuss the action of Messrs. Hayes, Conyngham & Robinson (Limited). I beg to state that no meeting of the Association was convened for that purpose.

I am, Sir, yours faithfully,

DAVID O'SULLIVAN,

1 Rathmines Terrace, Honorary Secretary.
April 26.

SIR,—A notice appeared in your issue of April 10, stating that a meeting of the Pharmaceutical Chemists' and Apothecaries' Assistants' Association would take place to consider my resolution, but as the committee were of opinion that it would be contrary to the rules of the Association, I withdrew my resolution.

Yours sincerely,

136 Great Britain Street, Dublin. G. T. NAGLE.
April 26.

Irish Pharmaceutical Loyalty.

SIR,—Possibly your correspondent "Irish County Chemist" may not object to put his name to his letter relative to a congratulatory address to our Queen from the Council of the Pharmaceutical Society of Ireland. I, as a country chemist, protest most emphatically against his language, and am glad to assert that the grand majority of Irishmen are proud of their Queen, her Government and laws.

I would like to know how much of the millions your correspondent pays and has paid. Ireland pays something like 8 per cent. of the taxes, and receives 18 per cent. of the money spent on non-imperial services.

Relative to the presumption in teaching the Council of the Pharmaceutical Society their business, I have no doubt they feel much obliged, and will take advantage of the lesson so auspiciously given.

I have the honour to subscribe myself a loyal subject of her most noble Majesty Queen Victoria.

Yours faithfully,

GEO. DIMOND, M.P.S.I.

[An Irish controversy is always interesting, but we shall have to deny ourselves the pleasure of publishing a general discussion of the relations of Great Britain and Ireland in these columns.—ED. *C. & D.*]

The Chemical Society.

SIR,—The graphic report published by you on April 3 is, so far as I know, the only report of the anniversary meeting written by a witness who was present and saw and heard that which came to pass. For that publication English chemists owe you a debt of gratitude.

In my letter to the *Pall Mall Gazette*, which you did me the favour of quoting, I directed attention to the failure of the Chairman to make the announcement of the results of the voting in the very explicit terms prescribed by the by-laws. The words used by the Chairman—"The list as proposed by the Council has been accepted by the Society"—might mean twenty things, especially when issuing from the mouth of an official. Bearing in mind that the election of about thirty members of Council was pending, we might have, for instance, drawn the conclusion that the Chairman was—simply as a preliminary to the announcement he was bound to make—informing the meeting that most of the names on the official ticket had been accepted. The by-law which orders "The names" "shall then be announced from the chair," provides, by means of that order, against those deceptions into which official prevarication is so prone to fall. To persons who, like myself, have carefully read and made an effort to understand the by-laws and the charter of this Society, the proceedings reported by you are most grave, and are of very sinister import. Evidently the Chairman cannot have made a study of the by-laws and the charter; if he had, the events are perfectly incomprehensible.

According to the charter, the anniversary meeting (the general meeting held once a year for the election of the President and other officers and other members of Council) is, so to speak, the fountain of all authority in the Society. And it is expressly commanded that at all general meetings "the majority present and having the right to vote thereat respectively shall decide upon the matters propounded at such meetings." The refusal to disclose the numbers voting, when the meeting had carried a resolution that the numbers should be disclosed, was a violation of the charter, and the nonsensical excuses were an aggravation of the offence.

The overwhelming majority which voted in favour of Mr. Cassal's motion for disclosing the numbers represented the majority which supported Professor Ramsay's candidature for the presidency. Some of these gentlemen signified their vote by simply writing Ramsay on the voting-paper, others voted by striking out the name of Dewar, and others by both striking out and writing in. Every one of these voters was entitled to the effect of his vote. There is absolutely no warranty whatever in the by-laws for treating any of the voting-papers as void. The question whether, through official carelessness, stupidity, or through other causes, the election-return of a chartered society be falsified is of public importance. In this case strong feeling and much indignation have been aroused, and considerable funds have been guaranteed in order to bring the matter to an issue.

Yours, &c.
J. ALFRED WANKLYN.

A Late Vindication.

SIR,—I have seen in your issue of three weeks ago an account of an inquest at Lambeth at which the Coroner said, "It is plain Mr. Morell told you one story and my officer another." Mr. Morell was not there to answer for himself, and I am anxious to right him.

He admitted the sale of precipitate to me; but white, not red. My observation of his words at the time may have misled me, and, seeing he incurred no responsibility in either case by the sale of red or white precipitate, I cannot see why he should be untruthful intentionally in the matter. There is, therefore, good reason for suspecting one of us was mistaken, and that no intentional lie has been uttered or intended.

Yours faithfully,
M. S. DUKE, M.R.C.S.

272 Kennington Park Road, S.E.

Note by the Editor.

We cannot find room this week for a number of letters and several columns of replies to correspondents.

DISPENSING NOTES.

Why Was This?

SIR,—I subjoin a copy of a prescription which I dispensed recently. I first compounded it with tap-water, and two days after it was brought back, having turned green. I again compounded it, but with distilled water, and had good results. What was the cause of the reaction? Our water is first class.

Spt. camph.	♏xij.
Chlorof. pur.	♏xij.
Misce et adde—	
Tr. card. co.	℥j.
Tr. nucis vom.	ʒiss.
Aq. ad	℥vj.
M.	

Ledbury. W. J. F. (101/49.)

Zinci Oleas 5 per cent.

SIR,—The following prescription has been dispensed at various establishments. Some turned out a slightly pink ointment, others a cream-coloured one. Some used 12 gr. zinci oleas pulv. (as 5-per-cent. zinci oleas) and 4 dr. oleic acid; others, ʒij. oleate zinc p. and ʒij. oleic acid—on the assumption that zinc oleas, B.P., is a 10-per-cent. preparation. Would you kindly say which is correct?

Hyd. ox. rub.	gr. vj.
Hyd. am. chlor.	gr. vj.
Oleat. zinci (5-per-cent.)	℥ss.
Vaselini	℥ss.

Yours, &c.,
IGNORANTIA. (99/65.)

[Zinci oleas 5-per-cent. means 5 per cent. of oxide of zinc, just as hydrarg. oleas 5-per-cent. means 5 per cent. of mercuric oxide. We should dispense the above with ʒij. of B.P. oleate, and the same of almond oil and white vaseline. So made it has a pinkish colour.]

Liquorice in a Mixture.

SIR,—I met the same difficulty years ago. It was annoying, and various plans were tried. It occurred to me that the very low temperature of the solution of ammon. chlorid. and aqua had something to do with it, so I used warm water. In practice this has been a success, with even a much larger proportion of the liquorice than your correspondent met with. I use the ext. glycyrrh. liq. as supplied by well-known London houses.

April 26. DISPENSER. (107/53.)

A Rolling Stone (105/59), hailing from Paddington, who writes funnily, but prefers to be nameless, says:—"Dissolve am. chlor. in half the water in a mortar, dilute ext. glyc. liq. with other half, and add am. chlor. to the liquorice, and not *vice versâ*, as you always do according to rule of thumb."

Another correspondent says:—"Dissolve the ammonium chloride, potassium iodide, and tincture of nux in 5 oz. of water, and to this add the extract of liquorice (mixed with 2 oz. of water) gradually without shaking. Then make up. Thus done there is no deposit."

Quin. Cit. and Potas. Cit.

SIR,—I have carefully followed Mr. H. S. Lean's directions, using samples of ferri et quin. cit. from three different sources, but have been unable to produce a clear mixture owing to the quantity of citric acid being insufficient. In order to improve its appearance, some manufacturers are in the habit of using an excess of citric acid in the preparation of ferri et quin. cit., and this may account for the varying results. A similar mixture to Mr. Lean's has been dispensed more than forty times by me, and the following method is that which experience has shown to be the best:—Dissolve the salts separately, each in 1 oz. of water. Mix the solutions all at once, and shake vigorously for some time. When the froth has subsided add the syrup and the rest of the water. Mr. Lean's prescription was thus dispensed three days ago, and at present the precipitate is easily diffused through the mixture on gently shaking. I have discarded the use of

citric acid, having seen crystals almost half an inch in length separate from a mixture when dispensed with its aid. The same phenomenon has been observed by others (*vide C. & D.*, vol. xlvi., page 751). Yours truly.

Uckfield, April 26. W. G. STRATTON.

LEGAL QUERIES.

A is a seedsman, and B a manufacturer of poisonous weed-killer. A sends out handbills, with his name on as agent, and solicits orders for B's weed-killer, which he forwards to B, who sends the weed-killer to A's warehouse in iron drums, labelled "Poison." A delivers same to his customers, receives money in payment, and gives a receipt on one of B's forms. A receives a profit on each transaction. Does A render himself liable to proceedings under the Pharmacy Act? [If he is unregistered, yes.]

102/48. *H. K.*—We cannot say, without searching, whether the word "Maltine" is registered as a trade-mark. You can ascertain that at the Trade-marks Office by paying 1*s*. But, if it is not a valid trade-mark, the proprietor could probably prevent the use of the word as describing a compound on the ground that they had made the title so well known that the public might reasonably suppose that a maltine compound was made with their article. This was the effect of the Eno *v.* Dunn case.

103/11. *Dubitus.*—If the glassmakers delivered the glass to a railway company on your instructions, the company were your agents, and you must sue for damages. The question of packing is one of fact, which the Court will decide on the evidence. If you take no action, the makers can sue you for the value of the glass. Then you can raise the defence that they did not properly pack it, and call the railway people as your witnesses.

J. T. F. (104/59) asks:—"Have I any remedy against my next-door neighbours, butchers, who put sawdust on the pavement in front of their premises? When the wind blows from them towards me my shop-floor becomes covered with sawdust, which can be swept up sufficient to half-fill an ordinary bucket in the day. Have I a legal grievance against them as a nuisance, and with what authority should it be lodged?" [Under the Town Police Clauses Act, 1847, the municipal authorities have power to prevent the nuisance, and if they refuse to act the County Court Judge has power to grant an injunction. Whether he will do so or not depends of course on the amount of inconvenience it causes. Our correspondent's best plan would be to write in the first place to the Town Clerk (if remonstrances with his neighbours prove unavailing) asking him to cause the nuisance to be abated.]

101/29. *Radix* writes:—"An assistant starting in business places his late firm's name so conspicuously as to delude people into thinking that the business belongs to the said firm. Can he be restrained from using the name?" [Certainly, if the Court is satisfied as to the deception.]

105/23. *Petroleum.*—It is not essential that a petroleum-licence should be renewed from year to year, but we do not think yours, passed on to you by your predecessor, is in order. You had better apply to the Clerk of the District Council. The fee must not exceed 5*s*.

100/16. *G. D.*—The law does not allow a chemist not licensed to sell spirit, to sell it in any quantity. But in July, 1880, the Secretary of the Board of Inland Revenue informed the trade, through THE CHEMIST AND DRUGGIST, that the Commissioners would allow chemists to sell not more than 8 oz. at a time of rectified spirits to medical or scientific men. See *C. & D.* DIARY, 1897, page 216.

MISCELLANEOUS INQUIRIES.

96/5. *Yorkshireman.*—(1) You cannot make printers' ink easily and cheaply. That is quite a special art—as difficult as varnish-making. Your best plan is to buy a little of each colour that you want. (2) **Engravings, Stereos, &c.**—See the engravers' advertisements in the DIARY. We have inserted a query for you.

96/57. *Country Chemist.*—**Paris-green** is an arsenite of copper, which is largely used as an insecticide. We have described it on many occasions during the past ten years. The Board of Agriculture recommend it.

96/74. *Max.*—**Essence of Lemon from the Oil.**—The best way is to shake up 1 part of the essence with 7 parts of rectified spirit occasionally in the course of a day; decant the spirituous solution, and filter through a paper damped with spirit and sprinkled with fuller's earth. It is the better of the addition of 1 oz. of tincture of lemon-peel to each 7 oz.

97/52. *Zemo.*—We must confess our ignorance of the hair-dye. What is it like?

97/31. *Sater.*—In regard to Government appointments for Minor men, see our last Educational Number.

99/39. *Inquirer.*—**Ung. Metallorum.**—See *C. & D.* DIARY, 1897, page 486.

98/41. *Sunbeam.*—**Liquid Gold.**—We cannot say what the particular kind which you refer to is made of; but the liquid golds now popular are made from the gold powder and a solution of celluloid shavings in amyl acetate (about 1 in 40), 1 part of the gold powder to 20 parts or so of the varnish.

98/19. *Carara.*—**Orangeade.**—See page 220 of the current volume.

98/17. *Pyrethrum.*—We do not report upon the quality of drugs, but may say that the sample of insect-powder which you send is not too yellow.

98/59. *Electric.*—**Dry-cell.**—The outer coating consists of a mixture of plaster of Paris 25 parts, sal ammoniac 10 parts, and water 20 parts. The mixture in the interior consists of powdered carbon 15, black oxide of manganese 10, sulphate of zinc 5, sal ammoniac 15 parts, glycerine 2 parts, and sufficient water to make a paste.

88/72. *Import* (Delhi).—The first two questions are not suitable for replies in this column, as they would take up too much space. Refer to any good dictionary of arts and manufactures. **Blue-black Ink**:—

Tannin	℥iij.
Water	℥iij.
Solution of perchloride of iron (10 per cent.)	℥vij.
Hydrochloric acid	℥ijss.

Heat on a water-bath for five or six hours, then add—

Water	Oiij.

Heat for another hour, set aside for a fortnight, strain and add—

Phenol blue FFF	ʒij.
Carbolic acid	℈ij.
Sugar	ʒijss.
Water	Oiij.

Mix well, and in a week decant.

To make **Copying-ink** add gum arabic ℥ss. and glycerine ʒiij. to 30 oz. of the ink. **Ink-powder**:—

Tannin	℥j.
Dried sulphate of iron	℥iss.
Gum arabic	gr. 75
Sugar	℈ij.
Aniline blue B	℈i.

Mix.

Red Ink:—

Eosin B	ʒj.
Solution of perchloride of iron ...	℥ss.
Mucilage of acacia	ʒij.
Oil of lavender	gtt. j.
Rectified spirit	℥ij.
Distilled water ad	℥viij.

Dissolve the eosin in half the water, add the solution and mucilage to it, then the oil of lavender dissolved in the spirit; shake, and make up.

96/58. *Cymro.*—**Dispensing-charges for Medical Men.**—The usual are: Mixtures, 1*d.* per oz., minimum 4*d.*; lotions, ½*d.* per oz., minimum 3*d.*; pills, 3*d.* to 6*d.* per dozen; powders, 6*d.* to 8*d.* per dozen.

97/2. *J. S.*—**Black Boot-polish**:—

Shellac	℥ijss.
Methylated spirit	℥xiiss.

Dissolve and add to a solution of—

Curd soap	℥iiss.
Hot 25-per-cent. spirit	℥iv. ℥vj.
Glycerine	℥ss.

Then add—

Best aniline black	ʒss.
Proof spirit	℥xiiss.

Mix, and keep for two weeks in a warm place before bottling.

107/38. *Polish.*—The above also applies to you.

97/26. *G. W.*—**Preserving Mushrooms.**—The following is an excellent way:—Rub the skins off small button mushrooms by means of salt and a piece of flannel. Put the mushrooms in a stewpan on the fire with a very little powdered mace, and salt and pepper to taste. Boil until the liquor just flows and dries up again, then cover with vinegar and simmer for a minute. Store in jars tied over with parchment-paper.

Strong Weed-killer.—Saturate a mixture of spirit of salt 1 part and water 3 parts with arsenic by boiling, and when cold, colour with methyl blue. The more spirit of salt there is used the stronger is the solution in arsenic—1 in 6 being the limit.

64/61. *Perplexed* (South America).—We have examined the samples of **Tomato-paste** which you send, and find that the one which retains the red colour is tinted with extract of Brazil wood. This is a much more stable colour than carmine, and is not so readily altered by contact with metals.

84/31. *A. W. T.* (Tokyo).—So far we have not been able to make out the composition of your gout-powders, except that they contain gentian and squill. If we can get more definite information we shall insert it. These purely vegetable powders require a great deal of time, and that is an element which we are not overburdened with.

96/55. *Diana* (Bombay).—(1) **Pick-me-up** for aërated beverage.—To each gallon of syrup add—

Tr. gentian. co.	ʒj.
Tr. cinnamon.	ʒij.
Tr. capsici	ʒiss.

And red colouring q.s.

(2) The formula is correct. The ointment is an escharotic. (3) Use equal parts of lactic acid and phosphoric acid with the Easton's syrup formula. (5) See DIARY, page 273, for gly. ferri brom., which gives you the basis. (4) and (6) We do not know.

INFORMATION SUPPLIED.

98/37. **Ocheil Berries.**—In this neighbourhood (Yorks, W.R.) we are often asked for "okky berries" and "okky-indy berries"—*i.e.*, bacc. cocculus indicus—which I suggest may be wanted. They are used here for making weak new ale into "Old Tom" by some unprincipled persons.

I understand these to be cocculus indicus, as they are here spoken of as "Hockely indiaberries."

VICTORY (Bradford). (106/26.)

In many Lancashire towns cocculus indicus is commonly called "ockly indy berries," and sometimes "ockly berries."

T. H. (105/68.)

Was *cocculus indicus* meant? In this neighbourhood it is frequently asked for under the name of "Ochel Inder Berries."

Epworth, April 27 C. C. B.

The Baldness and Dandruff Microbe.

THE *British Medical Journal* of April 24 prints an interesting paper on the investigations by Dr. Sabourand, formerly of the Pasteur Institute, on the origin of baldness. Without going into the bacteriological details, we may say that Dr. Sabourand has, after years of search, found that a certain bacillus is always associated with *alopecia areata*. There are others, but this particular one was found on isolation and culture to cause, when injected, *alopecia areata* in animals. Further research demonstrated that the same bacillus causes dandruff (seborrhœa), and the histology of bald scalps shows that the mechanism of the process leading to baldness is as follows:—The bacillus invades a hair-follicle, produces around it, and especially at its base around the hair-papilla, an afflux of wandering cells. The papilla gradually atrophies, producing as it does so a hair which is progressively more and more frail and devoid of pigment. Finally it dies, and the dead hair is expelled. In this seborrhœic infection of the hairy scalp the colonies of bacilli are enormously abundant; the sebum, which is effused on the surface of the skin in the form of an apparently homogeneous crust (scurf), is composed of an infinite number of seborrhœic plugs turned out of the follicles, and each of these contains the bacillus in millions. Once the disease invades the scalp it remains endemic, the scurf shed infects other hair-follicles, and even after baldness is fully established the infective material is still shed. Nothing is said about remedies.

Coming Events.

Friday, April 30.

Oxford and District Chemists' Association, at the Clarendon Hotel, at 3 P.M. The President of the Pharmaceutical Society will be present.

Dublin Chemists' Assistants' Association, 67 Lower Mount Street. Social evening.

Monday, May 3.

Royal Institution, Albemarle Street, W., at 5 P.M. General monthly meeting.

Society of Chemical Industry, London Section, Chemical Society's Rooms, Burlington House, at 8 P.M. Papers: "On a new slow combustion arc lamp suitable for factories and street lighting," by Dr. W. S. Squire; "On the conversion of oleic acid into candle material," by Dr. T. Lewkowitch.

Tuesday, May 4.

Royal Institution, Albemarle Street, W., at 3 P.M. Dr. Tempest Anderson on "Volcanoes" (Tyndall Lecture II.).

Midland Chemists' Assistants' Association, Birmingham, at 9 P.M. Annual general meeting.

Wednesday, May 5.

A gymnastic display by the Orion Gymnastic Club will be given at their hall in the evening on behalf of the Benevolent Fund of the London Commercial Sale-rooms. Tickets (2*s.* 6*d.* each) can be obtained from Mr. W. W. Green (Brookes & Green), 21 Mincing Lane, E.C.

Thursday, May 6.

Chemical Society, Burlington House, W., at 8 P.M. Papers to be read: "A Bunsen Burner for Acetylene," by A. E. Munby, M.A.; "On the Reactions Between Lead and the Oxides of Sulphur," by H. C. Jenkins and E. A. Smith. Ballot for election of Fellows.

Royal Institution, Albemarle Street, W., at 3 P.M. Professor Dewar on "Liquid Air as an Agent of Research."

Chemists' Club, Farringdon Avenue, E.C. Club dinner at the Holborn Restaurant, at 7.30 P.M. Chairman, Mr. Horace Davenport. Tickets 5*s.* 6*d.* each, to be obtained of the Hon. Secretary (Mr. W. A. Goodall), or from the members of the Committee.

Chemists' Assistants' Association, Queen's Square, W.C., at 8.30 P.M. Annual general meeting.

Condy's Fluid.

COLOURABLE IMITATIONS.

ELEVEN INJUNCTIONS

With Damages and Costs, have been obtained against Chemists selling a liquid not manufactured by Condy and Mitchell, in execution of orders for "CONDY'S FLUID."

CONDY & MITCHELL, Ltd., 67, Turnmill St., LONDON,

☞ Are the Sole Proprietors of "CONDY'S FLUID," and will take immediate proceedings against all persons in any way infringing their rights.

BISHOP'S

"ORIGINAL" GRANULAR EFFERVESCENT PREPARATIONS.

TRADE ABM MARK

CITRATE OF MAGNESIA (BEST).

In bulk, 1/7 per lb.; per cwt., 1/6 per lb. subject.

CITRATE OF MAGNESIA (SECOND QUALITY).

28-lb. Tins, 30/- nett; 56-lb. Tins, 56/- nett. Tins included. Also in ¼-lb., ½-lb., and 1-lb. Bottles.
This is an exceptionally reliable article, and much superior to that usually offered to the trade at the price.

EFFERVESCENT SALINE EITHER IN POWDER OR FINE GRANULES.

28-lb. Tins, 30/-; 56-lb. Tins, 56/- nett. Tins included. Also in 6-oz. and 8-oz. Bottles.

We desire specially to inform the trade that we are now putting up only TWO proprietary sizes instead of THREE as hitherto, and that the Retail Prices are in all cases printed on the label.

There are also some alterations in prices, which are shown in our New Price List.

SAMPLES AND PRICE LISTS FREE ON APPLICATION.

ALFRED BISHOP & SONS, LIM., Specks Fields, 48 Spelman St., LONDON, E.

"D.C.L." MALT EXTRACT

IMPORTANT NOTICE TO THE TRADE.

The DISTILLERS COMPANY, LIMITED, having exceptional experience of Malting, and commanding the services of highly-trained Analytical Chemists, together with the choice of the finest Grain procurable, consider that they occupy an unusually favourable position for the manufacture of

A PERFECT MALT EXTRACT.

It is, of course, concentrated *in vacuo*, and the temperatures at which the Malted Barley Grist is mashed and subsequently boiled are carefully regulated, so as to ensure the production of a Pure Extract of Malted Barley of unusually high Diastasic strength and nutritive value.

"D.C.L." Malt Extract has been submitted for analysis to a high scientific authority whose report will be forwarded privately to Pharmacists on application. The advertisers have every confidence in claiming that the high standard of excellence attained by their make, as shewn in the report, will be fully maintained, as each making is analysed before it is offered for sale.

SOLD IN BULK,

In 14 and 28 lb. Tins, and 56 lb. and 112 lb. Steel Barrels,

Carefully Tinned.

Sole Manufacturers—

The Distillers Co., Ltd.,

EDINBURGH.

Branch Houſe: HOPKIN & WILLIAMS, 16 CROSS ST., HATTON GARDEN, LONDON, E.C.

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1798

Howards & Sons

QUININE, CINCHONA ALKALOIDS,

Acetates of Soda & Potaſh.
Acids, pure.
Æthers, pure & methylated.
Antimony preparations.
Benzoic Acid & Benzoates.
Bicarbonate of Soda (Howards').
Biſmuth Salts, including Salicylas
Borax & Boracic Acid.
Bromides of the Alkalies.
Caffeine and Citrate, P.B.
Calomel.
Camphor Bells, Blocks & Flowers.
Citrate of Iron & Quinine, P.B.
Citric Acid & Citrates.
Cocaine and its Salts.
Corroſive Sublimate.
Ext. Cinch. Liq. P.B., & H. & S.
Iodides of the Alkalies.
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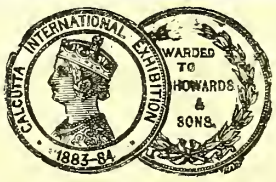
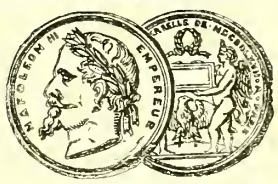
Liq. Biſmuthi et Am. Citratis.
Magneſia.
Mercurials.
Rochelle Salt & Pulv. Seidlitz.
Scale preparations.
Spirit preparations, and for Export under drawback.
Terebene.
Zinc and Iron Sulphates, &c.

AND OTHER PHARMACEUTICAL CHEMICALS.

Stratford, Eſſex.





Detailed Price Lists on application.

TO THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as to the amount of morphine used in the preparation of

Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth (1/64) of a grain.

It will be seen that this is very much less than the quantity used in other preparations authorised by the Pharmacopœia.

The Anglo-American Drug Company (Lim.),
W. RENAUD, Managing Director.

33 Farringdon Road, London.

LOFTHOUSE & SALTMER,

MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL.

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and send samples of our superior Nos. 1, 2, and 3 qualities of CITRATE OF MAGNESIA.

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and **Blaud's Pill Capsules**, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.

CHEMICAL DISINFECTANT.

10 and 15% CARBOLIC Antiseptic and Deodorising Powder.

Bags and casks free.

AGENTS WANTED to supply Corporations and large users.

SOLUBLE **SANITARY FLUID**

In Casks, and in 2, 1, and ½ gallon Tins.

CHESHIRE BIRD LIME.

In 1d., 2d., 3d., and 6d. tins. Also in 1, 2, 3, and 7 lb. Tins & Casks, for large consumers and the trade.

FLY PAPER MATERIALS

Supplied in Wholesale quantities

SPECIAL TERMS.

"COAGULINE"

(TRADE MARK).

Transparent Cement for Broken Articles.

CUE CEMENT.

CUE-TIP FIXERS

(Brass or Wood).

TIPS, WAFERS, CHALKS.

A NEW WHITE CEMENT,

Inorganic and almost Hydraulic.

KLINX

TRADE MARK.

FOR STONE, PORCELAIN, POTTERY, AND ALL VITREOUS SUBSTANCES.

Requires no preparation. Easy and clean in application.

Prices, Circulars with Name and Address, Specimens, Show Cards, Glass Tablets, &c., &c., on application.

KAY BROTHERS LIMITED, Laboratory and Works, ST. PETERSGATE MILLS, **STOCKPORT.** Founded A.D. 1786 Incorporated 1887.

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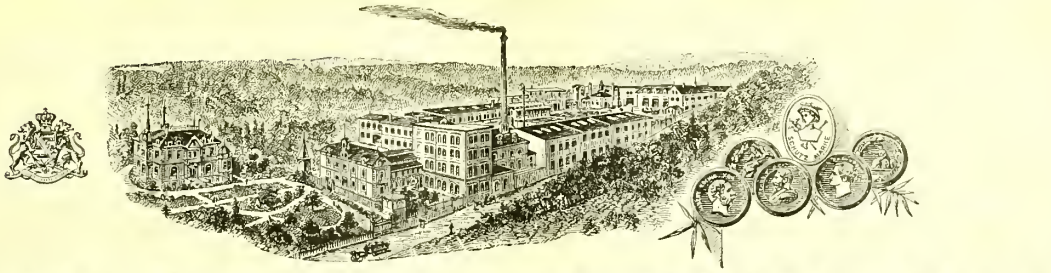


EUGEN DIETERICH

CHEMICAL WORKS at HELFENBERG, near DRESDEN.

PRICE LIST.

Dieterich's Ferro-mangan Preparations—

Liquor ferro-mangani saccharati (Dieterich)	8-oz. bottle (retail, 2/3); per doz., 20/-.
Liquor ferro-mangani peptonati (Dieterich)	16-oz. bottle (retail, 4/-); per doz., 34/6.
Liquor ferro-mangani peptonati cum iodo (Dieterich)	Can be had unstamped for dispensing.

The ferro-mangan saccharate and ferro-mangan peptonate are unrivalled in their efficacy in all cases of anæmia and chlorosis, and are of very pleasant taste. They do not affect the teeth, and are never refused by patients even if taken for a long time.

The ferro-mangan peptonate with iodine was found to be an excellent substitute for cod-liver oil, especially in summer time, when the use of cod-liver oil is generally discontinued.

Dieterich's Umbilical Rubber Bandage—

Diameter, 70 mm. (retail, 7½*d*); per doz., 3/10; per gross, 43/6.
Diameter, 90 mm. (retail, 10*d*); per doz., 5/6; per gross, 63/-.

This umbilical bandage is a very saleable article, and of proved utility; as the price is trifling compared with the bandages now on the market, a trial surely will pay.

Dieterich's Cod-liver Oil Compounds—

Cod-liver oil with: bromine and sulphur, iron and bromine, iron and iodine, iron-manganese and quinine, iron-manganese and bromine, iron-manganese and iodine, iodine and sulphur, iodine and tannic acid, quinine	Retail, 2/-. Per doz., 16/6.
Cod-liver oil with: iron, iron-manganese, iron-manganese and phosphorus, phosphorus	Retail, 1/9. Per doz., 15/-.

Dieterich's cod-liver oil compounds are the best preparations as to taste and efficacy known to the profession.

Dieterich's Tapeworm Cure—

For adults .. .. Retail, 2/6; per doz., 18/6.
For children .. .. Retail, 2/-; per doz., 13/-.

Its unrivalled efficacy in expelling tapeworms is due to the employment of extract of male fern of superior quality in combination with castor oil. Given in that manner a relatively small quantity of the extract is sufficient, and all disagreeable after-effects caused by large doses of the extract are avoided.

Dieterich's Extract of Malted Acorns—

Retail, 1/9; per doz., 12/-.

Was found very useful in rickets of children, and for persons suffering from malnutrition.

Dieterich's Court-plaster—

Please compare Prices.

Spread on silk; width, about 20 inches:
White, flesh-coloured or black, flesh-coloured arnicated or flesh-coloured salicylated .. } Rolls of 1 yard, 4/-; 5 yards, 19/-.

In attractive envelopes containing one leaf of plaster:
Flesh-coloured, white or black, size 35 by 60 mm. (1*d*. retail), 2/10 per 100; 12/9 per 500.
Ditto, size 60 by 70 mm. (2*d*. retail), 5/- per 100; 24/- per 500.

In stylish fancy pocket-cases, containing one leaf of plaster:
Flesh-coloured, white or black, size 35 by 60 mm. (1*d*. retail), 3/- per 100; 14/- per 500.
Ditto, size 60 by 70 mm. (2*d*. retail), 5/6 per 100; 25/6 per 500.

Customers' name and address will be printed on every envelope or pocket-case at a charge of 1/- per hundred. On buying 500 at the time, of one size, this will be done gratis.

Dieterich's Mustard-plaster—

Cardboard boxes containing:	Leaves 50	100	500
100 leaves each	—	2/3	9/9
50 leaves each	1/5	—	10/6
Lithographed tin boxes containing:			
100 leaves each	—	2/10	12/3
10 leaves each	2/3	—	19/9

Comparing analysis proved that Dieterich's mustard-plaster is the strongest on the market, as no other forms so much mustard-oil when dipped in water as Dieterich's.

Dieterich's Glue-bandages (Colligamen)—

	Per 1 doz. rolls of 1	2	5 yds.
Glue-bandage, with acetate of lead 5 %, or acetate of alum. 5 %; boric acid 3 %, or Hebra ointment 10 %; sublimate 0·1 %, or salicylic acid 3 %; sulphur 10 %, or oxide of zinc 25 %; zinc and salicylic acid 25 % : 5 %, or plain	3/3	6/2	15/5
Glue-bandage, with ichthyol 5 %, or iodoform 5 %; loretin 5 %, or zinc and ichthyol 25 % : 4 % ..	5/-	9/5	23/5
Glue-bandage, with iodide of potassium	4/-	7/9	19/-
Glue-bandage, with mercury 20 %, mercury and soap plaster (20 % Hg.)	6/5	12/3	30/9

Dieterich's Soap Glue Bandages—

Soap glue bandage, with carbolic acid 5 %, or plain	2/7	4/9	11/10
Soap glue bandage, with ichthyol 5 %, or iodide of potash 2 %	3/3	6/2	15/5
Soap glue bandage, with loretin	5/-	9/5	23/5
Soap glue bandage, with sulphur 10 %, or tar 10 %; sulphur and tar 5 % of each	2/7	4/9	11/10

Samples and testimonials may be had free of charge on application to the Head Depot for the United Kingdom—

M. BUCHNER (H. LINS, Ph.D., Succ.), ENGLISH AND FOREIGN CHEMIST,

149 HOUNDSDITCH, LONDON, E.C.

HIGHEST AWARD, CHICAGO, 1893.

T. & H. SMITH & CO., EDINBURGH & LONDON,

Are the ONLY MANUFACTURERS of the

SALTS OF MORPHIA

To whom, at the UNIVERSAL EXHIBITION, in PARIS, 1878, the

GOLD MEDAL WAS AWARDED.

NEW YORK Office—20 Cedar Street: DILLON & CO., Agents. [2]

BAYER'S PHARMACEUTICAL SPECIALITIES.

TRIONAL.	Absolutely safe and efficacious Hypnotic. Dose: 15 to 20 grains.
SOMATOSE.	An important nutrient and invigorant, especially for Convalescents, Invalids, Phthisis, Chlorosis Carcinoma ventriculi Rachitis.
IODOTHYRIN.	The active principle of the Thyroid Gland.
SALOPHEN.	A Specific for Headache, Influenza, Acute Muscular Rheumatism.
TANNIGEN.	Acting promptly in Chronic and Acute Enteritis, especially for Children.
LYCETOL	(Tartrate of Piperazine). Antilithic, Uric Solvent.
SYCOSE.	The purest Artificial Sugar, free from para acid.
EUROPHEN.	A perfect substitute for Iodoform, odourless, and non-toxic. *Special indications:* Ulcus Molle, Papul. Madid., &c.
ARISTOL.	An excellent cicatrising agent. *Special indications:* Burns, Ulcus Cruris, Parasitical Eczema, Ozæna,

PIPERAZINE-BAYER, PHENACETINE-BAYER, SULFONAL-BAYER, SALOL-BAYER.

Wholesale Depot for all "Bayer's" Drug Specialities:

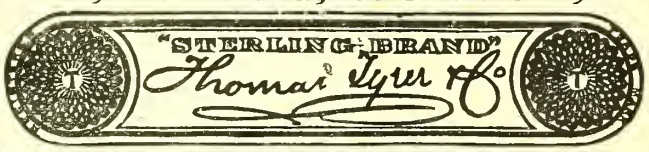
ELBERFELD FARBENFABRIKEN CO., LTD., 19 ST. DUNSTAN'S HILL, E.C.

Also at Manchester, Glasgow, and Bradford.

THOMAS TYRER & CO.

Chemical Works, Stratford, LONDON, E. (Established 1844),

DIRECTOR OF LABORATORIES



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CHEMICALS FOR ANALYSIS—PHARMACY—PHOTOGRAPHY—ANTI-FOULING—PAINTING—FIRE & WATER PROOFING,

Or other Scientific or Technical Purposes. [1]

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WALDHOF, near MANNHEIM,

MANUFACTURERS OF

B. & S. BRAND **COCAINE** B. & S. BRAND

SULPHATE OF QUININE, and all other CINCHONA PREPARATIONS.

ALSO OF

ACETANILID, CAFFEINE, CHLORALHYDRAT, CODEINE & ITS SALTS, CUMARIN, GALLIC ACID, GLYCERINE, HELIOTROPIN, PHENACETIN, PYROGALLIC ACID, SALICYLIC ACID & SALICYLATES, STRYCHNINE, TERPIN HYDRAT, &c.

STOCKS KEPT IN LONDON AND GLASGOW.

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PURE MALT EXTRACT

RICHEST IN DIASTASE. PURITY & KEEPING QUALITIES GUARANTEED.

THE LANCET says :—"This preparation proved to be a highly concentrated and active malt essence. It possesses a rich malty flavour, and acts **powerfully** upon starch, **converting it rapidly into maltose.** It is, therefore, well adapted for use as an aid to the digestion of starchy foods, whilst furnishing also important food constituents."

THE BRITISH MEDICAL JOURNAL says :—"It is of palo amber colour and good consistency. When tested with gelatinised starch it converted **FIVE TIMES ITS OWN WEIGHT IN FIVE MINUTES** at a temperature of 100° F. This result shows that the Extract has a **very high diastasic power,** and it therefore would be extremely efficacious as a medicinal agent where the use of an aid to the digestion of amylaceous food is indicated."

THE PHARMACEUTICAL JOURNAL says :—"This preparation is one which is not as well known to the retail chemist as some that could be mentioned, but examination of it shows that it **possesses claims which entitle it to extended patronage.** The result of the test proves the extract to be of **UNUSUALLY HIGH DIASTASIC VALUE,** and it is equally satisfactory in other respects."

Samples on application to the

ENGLISH DIASTASIC MALT EXTRACT CO., LTD.

MISTLEY, ESSEX.

COD LIVER OIL

"HENRIKSEN & CO.'S" Brand.

Guaranteed Pure. Very Finest* 1897 *Lofoden Non-freezing.

FOR SAMPLES AND PRICES APPLY TO

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Sole Agents for the United Kingdom and Colonies.

HENRIKSEN & CO." are actual Manufacturers, & were awarded Gold Medals at the Tromsö Exhibitions in **1870** and **1894.**

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METHYLENE.

Obtained by the action of Metallic Zinc on Chloroform and Alcohol.

Discovered to be a general Anæsthetic by Sir BENJAMIN W. RICHARDSON in 1867.

1-lb. Stoppered Bottle, 12s. ; ½-lb., 6s. 6d. ; 4-oz., 3s. 6d. ; 2-oz., 3s.

COMPOUND ANÆSTHETIC ETHER,

For producing Local Anæsthesia.

In 4-oz., 10-oz., and 20-oz. Stoppered Bottles, 2s., 4s., and 7s.

OZONIC ETHER,

In 2-oz., 4-oz., 8-oz., and 16-oz. Stoppered Bottles, 2s., 3s. 6d., 7s., and 12s.

PEROXIDE OF HYDROGEN,

First introduced as a Medicine by Sir BENJAMIN W. RICHARDSON.

ETHYLATE OF SODIUM

(Sir BENJAMIN W. RICHARDSON'S Formulæ), for removing Nævi, &c.

In ½-oz. and 1-oz. Bottles, with elongated Stoppers for applying the Caustic, 2s. 6d. & 4s.

STYPTIC COLLOID,

For promoting the Healing of Wounds by the first intention.

In 2-oz. and 4-oz. Bottles, with Brush, 2s. 6d. and 4s. 6d. ; 16-oz., 12s.

CHARCOAL CAPSULES,

Containing Pure Vegetable Ivory Charcoal.

In Boxes, 2s. 6d. each.

J. ROBBINS & Co. 147 OXFORD ST.

They stand alone in their might.

The "GIANT" Remedy,

BOX'S PILLS

Re-christened by the Americans

"THE GREAT ENGLISH REMEDY,"

Grapple with and triumph over disease with perfect ease.

Price 1/1½, 2/9, 4/6, 11/-, and £1 1s. per box.

Prepared by

W. H. BOX, 161 KING ST., PLYMOUTH.

DR. SCOTT'S BILIOUS & LIVER PILLS.

The Proprietors of the above well-known Pills have decided in the interest of the Retail trade to stop all further cutting and allow a reasonable profit, and in so doing hope to secure the goodwill and co-operation of all respectable Chemists and Druggists.

A GOOD PILL and GOOD PROFIT.

1/1½ size	Wholesale Price,	*10/-*	per dozen.
,, ,, ...	Minimum Retail Price,	*1/-*	,, box.
2/9 ,, ...	Wholesale Price,	*24/-*	,, dozen.
,, ,, ...	Minimum Retail Price,	*2/6*	,, box.

The proprietors will be obliged if Chemists will report all cases of Cutting to

THE SECRETARY, PROPRIETARY ARTICLES TRADE ASSOCIATION,
2 and 3 STONECUTTER STREET, E.C.,
who will see that the Cutting is stopped or supplies withheld.

Messrs. LAMBERT & CO. will be pleased to supply Handbills, with Name and Address, CARRIAGE PAID, on receipt of Business Card direct to 173 Seymour Place, London, W.

Chemists' "Own" "Specialities."

BLEASDALE, LIM.
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WHOLESALE CO-OPERATIVE DISTRIBUTORS & MANUFACTURERS FOR CHEMISTS.

Managed by Chemists.

WRITE FOR PRICE LIST.

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BOTANIC DRUGS
IN PACKETS AND BULK.
(Your name, &c., on the Packets free. Style, Size and Price are the first.)

FLUID & SOLID EXTRACTS
Reliable quality, Reasonable price.

DRUGS, &c., for Veterinary Preparations
Low Price, Freshly Ground, guaranteed genuine. Extra Special offer in Cayenne Peppers.

SPICES, WHOLE AND GROUND
Guaranteed pure, packed in tins, with Customer's name and address on the labels free, if desired.

Vegetable Drugs
OF EVERY DESCRIPTION.

Bird Seeds and Foods, Dog and Poultry Pills, &c.

Write us, stating wants (however small) in this line, and compare our prices with others. All goods Carriage Paid.

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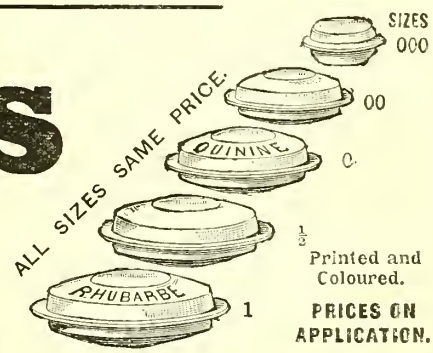
(CAPELLIFORMES.)

3/3 per **1,000** (**2/9** net).

1,000 at a time, **3/-** (**2/6¾** net).

Subject usual discounts.

Write for Samples, which we will send post free.



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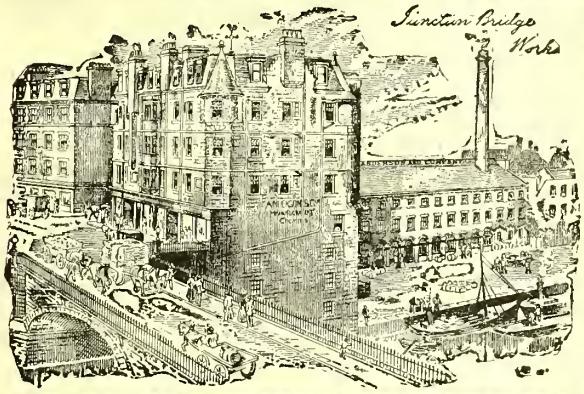

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HOME.] AND [EXPORT.

ITS COMBINATIONS.

GUARANTEED ABSOLUTELY PURE AND OF HIGH DIASTASIC VALUE.

TRIAL ORDER SOLICITED.

ANDERSON & CO., Wholesale Manufacturing Chemists, **EDINBURGH.**

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149 St. Vincent St.,
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WORKS—
Whitecrook,
CLYDEBANK.

THE BRITISH CHEMICAL CO., LIM.

(EDW. C. C. STANFORD, F.I.C., F.C.S., Manager and Director),

MANUFACTURERS OF PURE

Iodides of Potassium and Sodium and Resublimed Iodine.

London Agents—
W. Y. ROBINSON & CO.
Market Buildings,
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HUBBUCK'S PURE OXIDE OF ZINC.

Sold by the following Wholesale Druggists, in Boxes of 7 lbs. and 14 lbs., stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles:—

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Walker, Troke & Co.
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Schieffelin, W. H., & Co., New York.
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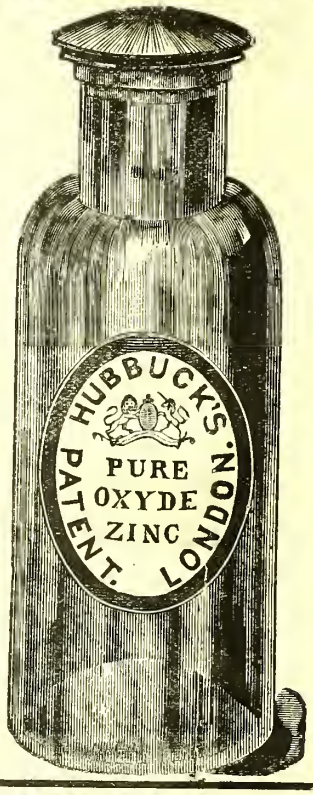

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Is made by Sublimation, and is Warranted to contain upwards of

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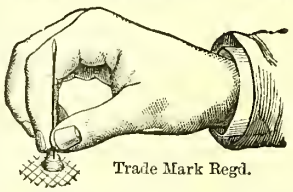
CALF AND HUMAN.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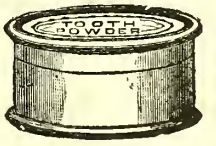

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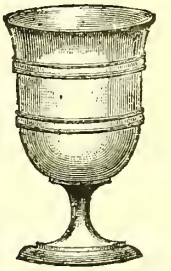

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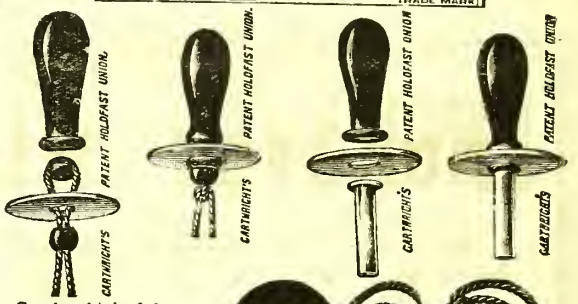

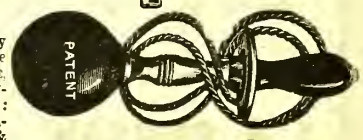

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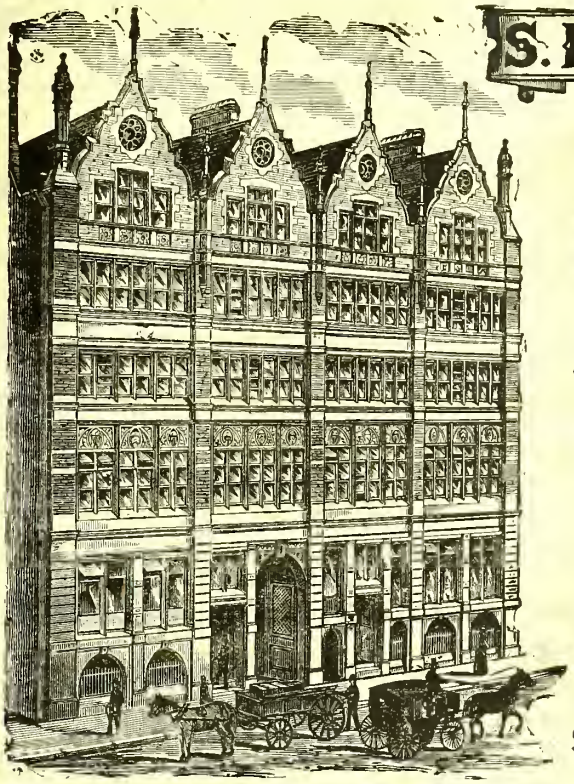

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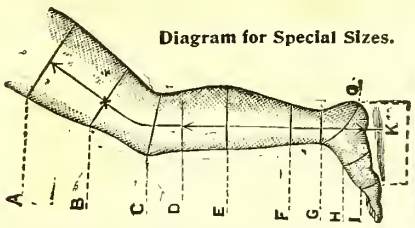

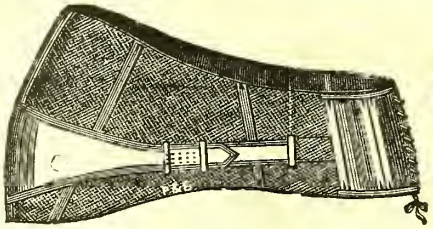

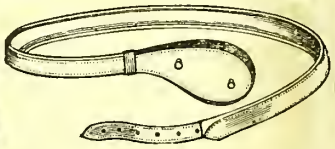

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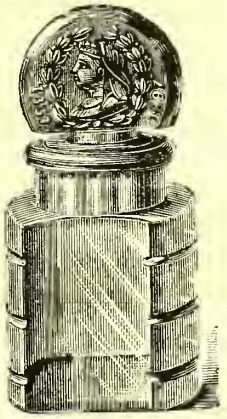

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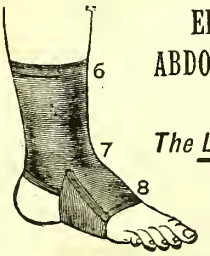

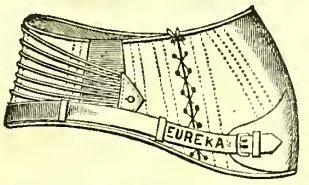

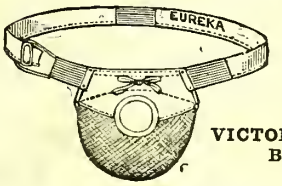

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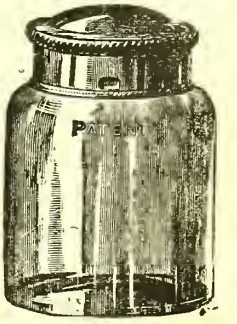

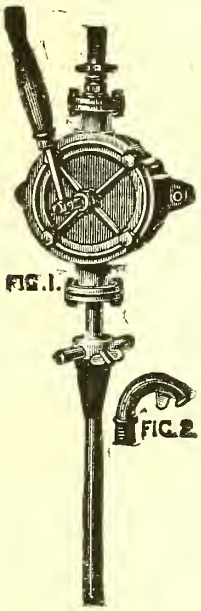

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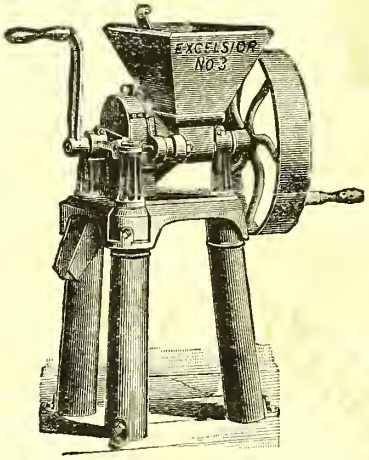

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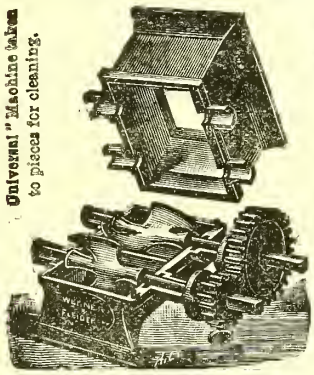

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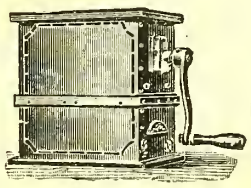

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60 O.P. AT LOWEST PRICES. 56 O.P.

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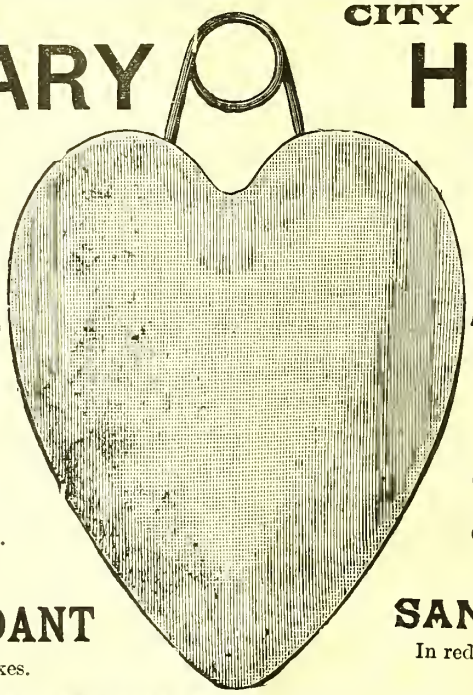
SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY, 7 YEARS OLD. THE CREAM OF SCOTCH WHISKY. Per doz. **42/-** Per doz.

51

THE CITY OF LONDON

SANITARY HEART.



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Retails at 3d.
EACH IN A BOX.

Trade price **2s.** per dozen.

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Also the PENNY

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4/9 per gross, in ½-gross boxes.

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Keeps MOTHS & other INSECTS from CLOTHES.

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ALSO THE

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In red and gold or blue and silver frames, **8/-** per dozen.

Pleasant, Fragrant, and Ornamental.

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J. BEEDZLER & CO. (Established 1700.) **20 NORTON FOLGATE, LONDON, E.C.**

DAY, SON & HEWITT,

Largest Makers in the World of

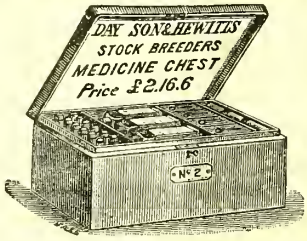
HORSE AND CATTLE MEDICINES

For Kicks, Cuts, Bruises, Sore Withers, Swellings Strains of Ligaments and Tendons, Saddle Galls &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2/6, 3/6, and 7/- per Bottle.

For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for Cleansing and checking Feverish symptoms in Cows and Ewes after Parturition, rendering the milk copious, pure, and wholesome. It acts as a safe preventive of milk Fever.

Price (Cows), 13/- per doz. box; (Ewes), 3/6 per doz. 3-doz. box, 10/-



Complete in 3 sizes. Sent Carriage Paid.

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Liberal Discounts to Agents and Foreign Buyers.

Trade Terms and full particulars on application.

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A sure remedy for the Fret, Colic or Gripes, Influenza, Loss of Appetite in Horses. For Debility, Scour, or Diarrhœa in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.

Price 1/9 per Bottle. 20/- per doz.

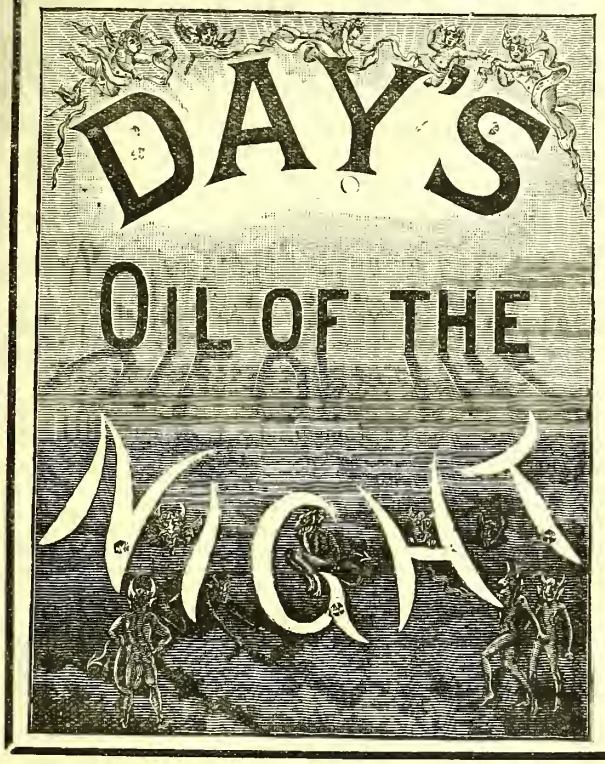
For Blood Disorders in Horses, Eczema, Surfeits, Nettle-rash, Ringworm, Itching, Ill-Condition, Off-Appetite, Staring Coat, and Sluggishness. Invaluable for Sterility or Barrenness in Horses and Mares, by virtue of its Phosphoric and other stimulating ingredients. Contains no injurious drug and can be given at all times to all breeds of horses without stopping their work.

Price 5/6 per doz. Packets; 3-doz. 15/-

Sold also at reduced rates in Tins 10/6 and £1 each.

Royal Animal Medicine Manufactory, 22 DORSET STREET, LONDON, W. [Established 1833.]

DAYS' OIL OF THE NIGHT



THE GREAT EMBROCATIVE BALM

Has now been proved well in front of any preparation for similar uses, and its sale is increasing by leaps and bounds.

Neat Printing Gratis with every order from Crewe.

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The Embrocative Balm for Rheumatism, Sciatica, Lumbago, Sprains, &c., &c., and all Aches and Pains. 1/1½, 2/9, and 6/6 per bottle, less discount.

DAYS' OIL OF THE NIGHT

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The Great Embrocation for Sprains, Swellings, Sore Throats, &c., &c., in Horses and Cattle. 1/-, 2/6 and 6/- per bottle, less discount.

From Wholesale Houses, or direct.

DAY & SONS, CREWE.

Established 1840. Day & Sons, Crewe.

Established 1840. Day & Sons, Crewe.

HORSE AND CATTLE MEDICINES.

LARGEST SALE IN THE WORLD.

For Colic and Gripes in Horses, Hoven or Blown Cattle and Sheep, Scour in Calves, &c. 1s. 8d. per bottle, or 19s. per dozen.

DAYS' "PURIFIED" DRIFFIELD OILS.

("DAYS' OILS.")

Heals Kicks, Cuts, Stake Wounds, Broken Knees, &c.; Safely Heals all Wounds in all Animals; a Soothing and Antiseptic Oil for Lambing and Calving.

Price 2s. 6d. and 6s. per Bottle.

DAYS' WHITE OILS.

Unequalled as a Safe Embrocation for all Stock; for Sprains, Swellings, Windgalls, Sprung Sinews; for Rheumatism, Sore Throat, Weak Joints; for Curbs and Splints when forming.

Price 2s. 6d. and 6s. per Bottle.

THE "ORIGINAL" UNIVERSAL MEDICINE CHEST.

For Disorders of HORSES, CATTLE, and SHEEP.

Price, with Guide, "Everyday Farriery," £1 4s., £2 4s., and £5.

DAYS' RED DRINK (OR COW DRENCH).

Cures Fever and Costiveness in Cattle; Cleanses and Cools the Blood and System; for Red Water, Indigestion, and Yellows; Cures Bad Cleansing and Prevents Milk Fever.

Price 12s. per dozen Packets.

The "EWE DRENCH" acts as above for sheep. 3s. 6d. per dozen.

DAYS' HUSKOLEIN.

The most successful remedy for Husk, Hoose, or Hoast in Stock, and Worms in Horses, Colts, and Dogs.

Price 6/6 per bottle, 5 bottles 30s., or 12 bottles, £3.

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Arranged specially for Disorders in HORSES.

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WITH INSCRIPTIONS IN ANY DESIRED TINT; ALSO PLAIN OR EMBOSSED.
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Also a copy of "Spare Moments" weekly, free.
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High-Class Work, Quick Delivery, Low Price.
Price Lists and Testimonials, see two-page advertisement in Summer Number *Chemist and Druggist*, or Free per Post.
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PURE WHITE
PETROLEUM EMULSION
With 16 grains Hypophosphites of Lime and Soda in each ounce.
A Palatable and Efficacious Remedy in Inflammatory and Wasting Diseases
Write for Sample and Price to
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The **THYMO-CRESOL FLUID** is a more powerful germicide than *pure Carbolic Acid* — non-poisonous, non-corrosive.
Bottles and Tins, 6d., 1/-, 2/6, 4/-, 7/6.
Ness & Company, Darlington.

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CORNS! BUNIONS! NAILS!
And all Diseases of the Feet Successfully Treated, Without Pain, by
MR. GARDNER, 85 REGENT STREET, W.
Highest surgical testimonials (Sir Wm. Jenner, &c.). Also testimonials from the Prime Minister, Bishop of London, H.R.H. Prince Christian, &c.
CORN, BUNION, and Chilblain Ointment absolutely cures gouty and all painful affections of tender feet, soft corns, stiff and enlarged toes and joints, &c. Post free 15 stamps. **SKIN TONIC BALSAM** gives great **Purity of Complexion,** removes Redness, Roughness also promotes healthy action and Softness of the Skin. 19 or 38 stamps

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THE "AMBER."
From £5 3 6. *Catalogue Free.*
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Wholesale Druggists, Dealers in Chemicals for Analytical Work, and Methylated Spirit Makers,
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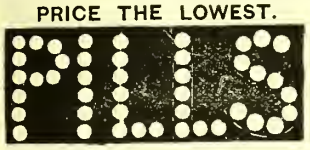

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A New Waterproof Substance for Surgical and curative purposes
It is not injured by heat or close packing.
Recommended by "THE BRITISH MEDICAL JOURNAL."
4/- per yard. 36 in. wide.

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Producing Flaxen Golden Hair.

Gold Medal, PARIS, 1867. PHILADELPHIA, 1876.

This is a very superior article. In Bottles at 3/6, 6/-, & 10/-

All Wholesale Houses, or direct from

H. H. THIELLAY

Parfumeur-Chimiste, Amersham Park, New Cross, LONDON, S.E.

(SHOWROOMS AT CHARING CROSS HOTEL.) [3]

HERBULINE

IS PUT UP IN AN EXCEPTIONALLY ARTISTIC CARTOON,

And as we have started to advertise this popular Remedy largely in England and Wales, we beg to inform the Trade that it is stocked by nearly every Wholesale House in the Kingdom.

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IMPORTER & EXPORTER of all kinds of CRUDE DRUGS.

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Goods specially packed for Export to all parts.

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8D. per lb. 1 cwt. kegs. **JOHN BURDON & CO.,** 56 Leadenhall St., LONDON, E.C.

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A New form of Homœopathic Medicine.

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BEAR GOOD PROFITS.

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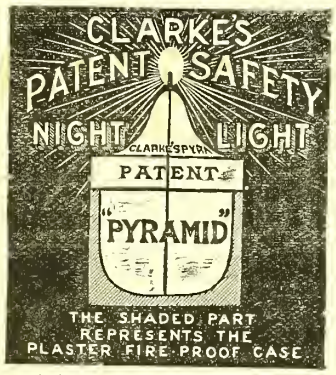
The Cheapest and Best House for Homœopathic Medicines. Send for Illustrated Price List.

93 LEADENHALL STREET, LONDON, E.C.

Trade Mark, "PYRAMID."



"PYRAMID" LIGHT.

Single Wicks, burn 9 hours each, in boxes containing 8 Lights.
Burn 6 hours each, in boxes containing 12 Lights.

Illuminations

IN CELEBRATION

OF

SIXTY YEARS' REIGN

OF

H.M. QUEEN VICTORIA,

In JUNE, 1897.

Trade Mark, "FAIRY."

"FAIRY" LIGHT.

With Double Wicks, in boxes containing 6 Lights and Glass. Burn 10 hours each.
In boxes containing 10 Lights and Glass. Burn 6 hours each.

DEAR SIR,

We particularly wish to call your attention to the attached Circular.

We are confident that these in and out door illuminations, by means of our lamps, are well worthy of the attention of the Country Dealer, with whom much local business might be done with very little trouble and considerable profit, and the Dealer would be enabled to secure a very telling advertisement free of cost.

It has occurred to us that, in Commemoration of the Sixty Years' Reign of H.M. Queen Victoria, you might be desirous of accentuating this special occasion by illuminating your shop window. This can be done by using our lamps, without much trouble or expense. Should you be disposed to do so, kindly write us as early as possible in 1897.

We are confident that we can help you to acquire a splendid advertisement.

We are, yours faithfully,

CLARKE'S "PYRAMID" & "FAIRY" LIGHT COMPANY, LIMITED.

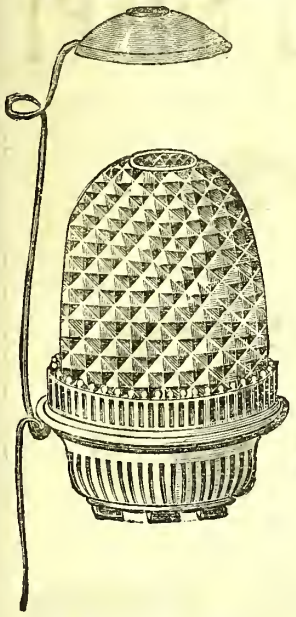
CRICKLEWOOD, LONDON, N.W.

City Show Rooms—67 ALDERSGATE STREET, E.C.

All Letters should be addressed to CRICKLEWOOD, N.W.

SPECIAL CIRCULAR.

WEATHER PROOF.



As drawn. No. 288½.

ILLUMINATIONS

IN CELEBRATION OF

SIXTY YEARS' REIGN

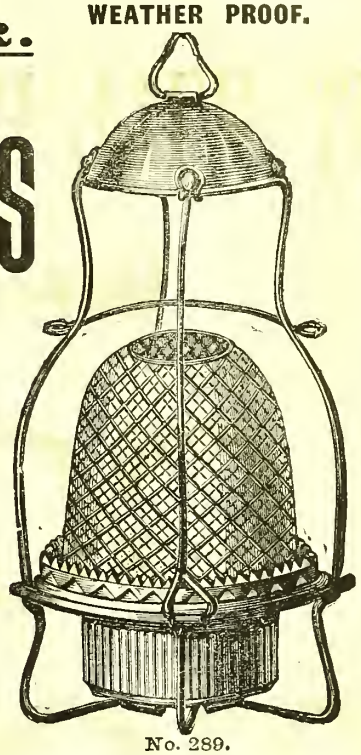
OF

H.M. QUEEN VICTORIA,

IN

JUNE, 1897.

WEATHER PROOF.



No. 289.

DEAR SIR,—Dealers who purpose going in for Illumination Trade should make their arrangements as early as possible.

In the Jubilee Year of 1887 many hundred thousand "Fairy" and "Fairy Pyramid" lamps were sold for Illuminating purposes through the Retail Trade, and a large number of orders were received which we were unable to execute, owing to the time being too short to allow us to do so.

We therefore urge the Trade to allow us to book their orders as early as possible in 1897, and we guarantee delivery of all orders which we accept.

It is advisable that dealers should place their orders with us as early as possible for delivery **prior to the commencement of June.**

Special attention is called to these paragraphs.

In commemoration of this special occasion, we purpose giving **Free Lamps** with our "Pyramid," "Fairy," and other kinds of lights during May, 1897.

Four glass "Pyramid" lamps, in assorted bright colours (retail value fourpence each), will be given with every dozen boxes "Pyramid" night lights, 9 and 6 hours, with "Fairy Pyramid" lights, 10 and 6 hours.

And six "Fairy" lamps (retail value one shilling each) will be given with every dozen boxes "Fairy" lights, 10 and 6 hours.

Special attention is called to these paragraphs.

These lamps, both "Fairy" and "Fairy Pyramid," will be specially suitable for indoor and outdoor illumination, and we shall be prepared to supply additional lamps at low prices; also wire suspenders, rain and wind proof suspenders, &c., to fit both sizes of lamps, at nominal prices.

We shall also, for illumination purposes, supply both "Fairy" and "Pyramid" lights packed in bulk in deal boxes, containing an equal quantity of lights as contained in one dozen cardboard boxes. This is a great convenience, and saves much time.

The **Bonus will be paid upon all our lights** used for illuminations, as well as upon our lights supplied for ordinary use.

We solicit your correspondence and esteemed orders.

We are, respectfully,

CLARKE'S "PYRAMID" & "FAIRY" LIGHT COMPANY, LIMITED.

CRICKLEWOOD, LONDON, N.W.

City Show Rooms—67 ALDERSGATE STREET, E.C.

All letters should be addressed to CRICKLEWOOD, N.W.

IT WILL PAY you to SELL SOAP!

WHOSE SOAP?

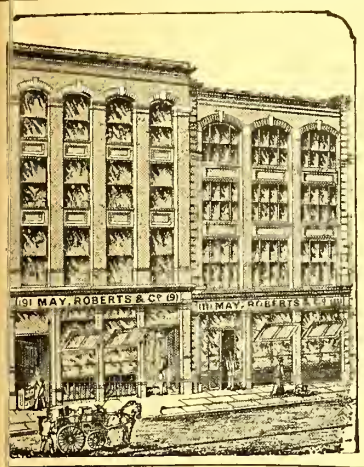
COOK'S TOILET SOAP.

Representatives will promptly call if you write to

EDWARD COOK & CO., LONDON,

SOAP SPECIALISTS.

SPECIALITIES MADE FOR THE TRADE.



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ILLUSTRATED PRICE LIST.

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Sent Post Free on application with Business Card.

REGISTERED TRADE MARK M R & Co LONDON

Druggists' Sundries.
Packed Drugs & Perfumery.
Patent Medicines.

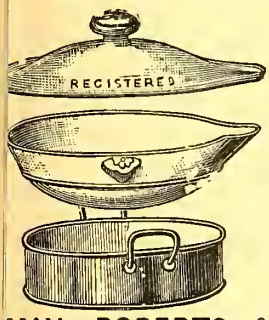
NO TRAVELLERS.
Their Expenses given to Buyers.
CARRIAGE PAID!
See Terms.

MAY, ROBERTS & CO., LONDON

Telegraphic Address: "FEEDING BOTTLES LONDON."
Telephone No. 6889, Holborn Exchange.

"MAY-ROBERTS" WATER BATH

(REGISTERED).

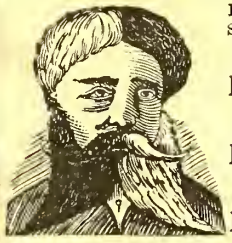


The **old form** of Water Bath necessitates the use of a **second vessel** for pouring the melted **Pomade Cream** or other substance into the bottles or jars in which they are sold. In the **"MAY-ROBERTS" Water Bath** the earthenware bowl can be lifted out of the tin containing the boiling water, the process of cooling being thereby very much expedited, and the contents can be **poured** into the bottles or jars **direct from the bowl.** The Bath is also supplied with an earthenware cover.

1-PINT, 3/- each; 5-PINT, 5/6 each; 10-PINT, 9/6 each.

MAY, ROBERTS & CO., LONDON, E.C.

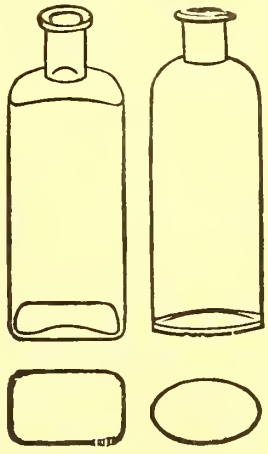
Damschinsky's American Hair Dye.



MAY ROBERTS & CO. have been appointed Special Agents for the above celebrated single-fluid Hair Dye.

Retail 2/-, less than 1 dozen, 13/-.
Retail 2/-, not less than 1 dozen, 12/6.
Retail 2/-, not less than 12 dozen, 11/6.

GREEN FLINT DISPENSING BOTTLES.



FLAT WITHOUT EDGES, OR OVAL.

PRICES: FROM LONDON STOCK.

QUININE TINT. W. Brand.

1	1½	2	3	4	6	8	10	12	16	20	24	32	40 ounce.
9/-	9/-	9/3	10/9	10/9	12/-	12/-	18/-	18/-	21/6	27/-	32/6	43/-	49/- per gross.

QUININE TINT. M.R. Brand. Very Best Quality.

1	1½	2	3	4	6	8	10	12	16	20	24	32	40 ounce.
8/9	8/9	8/9	9/10	9/10	11/3	11/3	16/9	16/9	20/-	24/-	30/-	40/6	47/- per gross.

ORDINARY TINT. M.R. Brand. Second Quality.

1	1½	2	3	4	6	8	10	12	16	20	24	32	40 ounce.
6/7	6/7	6/7	7/3	7/3	8/6	8/6	10/9	12/3	16/10	19/3	22/9	26/6	29/- per gross.

PRICES: IN CRATES SENT DIRECT FROM THE WORKS.

W. Brand.

1	1½	2	3	4	6	8	10	12	16	20	24	32	40 ounce.
8/10	8/10	9/-	10/3	10/3	11/6	11/6	17/6	17/6	21/-	26/-	31/6	41/6	47/- per gross.

M.R. Brand. Very Best Quality.

1	1½	2	3	4	6	8	10	12	16	20	24	32	40 ounce.
8/7	8/7	8/7	9/4	9/4	10/9	10/9	16/-	16/-	19/-	23/-	28/6	38/6	45/- per gross.

M.R. Brand. Second Quality.

1	1½	2	3	4	6	8	10	12	16	20	24	32	40 ounce.
6/5	6/5	6/5	7/-	7/-	8/-	8/-	10/3	11/9	16/-	18/3	21/9	25/3	28/9 per gross.

USUAL TERMS. NOT LESS THAN £5 WORTH CARRIAGE PAID.

MAY, ROBERTS & CO., 9 & 11 Clerkenwell Road, LONDON.

UNDER EMINENT SCIENTIFIC CONTROL

"APENTA"

THE BEST NATURAL APERIENT WATER.

TRADE PRICES, per Case:

25 Large Bottles	20/-	Carriage Paid to any Railway Station in the United Kingdom.
50 Small ,,	32/6	
100 Quarter ,,	32/6	

5 per cent. Discount upon orders for 10 Cases.

TERMS:—Six Months' Credit from date of Invoice, Net Cash.

The Retail Prices printed on the labels are 1/3 per large bottle, 1/= per small bottle, and 6d. per quarter bottle.

THE APOLLINARIS COMPANY, LIMITED,

4 Stratford Place, Oxford Street, London, W.

Cadbury's Cocoa

ABSOLUTELY PURE therefore BEST.

Cadbury's is "The Typical Cocoa of English Manufacture, Absolutely Pure." *The Analyst.*

NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOAS.

Telegrams: "RELISH LEEDS."

Nat. Telephone No. 954.

GOODALL, BACKHOUSE & COMPANY

7 to 15 WHITEHORSE STREET,
SOVEREIGN STREET AND VICTORIA ROAD,

LEEDS

MANUFACTURING CHEMISTS ◆ WHOLESALE DRUGGISTS,

Drug and Spice Grinders,

Patent Medicine Dealers, Druggists' Sundriesmen, Tin Canister Makers.

PROPRIETORS OF

YORKSHIRE RELISH AND GOODALL'S HOUSEHOLD SPECIALITIES.

PRICE LISTS OF DRUGS, PATENT MEDICINES, AND PACKED GOODS ON APPLICATION.

Net Cash Prices Quoted for Wholesale Quantities. Inquiries Solicited.

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